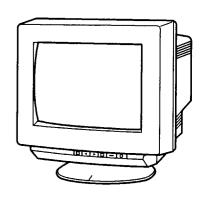
# Service Manual

Multi-Scan Color CRT Display MODEL TX-D1733 Series

Chassis No. HV5
Chassis Family No.17HV5



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# **△** WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public.

It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product.

Products powered by electricity should be serviced or repaired only by experienced professional technicians.

Any attempt to service or repair the product or products dealt within this service information by anyone else could result in serious injury or death.

## SAFETY PRECAUTIONS

#### 1 CAUTION:

No modification of any circuit should be attempted. Service work should only be performed after you are thoroughly familiar with all of the following safety checks and servicing guide lines.

#### 2 SAFETY CHECK

Care should be taken while servicing this CRT display because of the high voltage used in the deflection circuits. These voltages are exposed in such areas as the associated flyback and yoke circuits.

#### 3 FIRE & SHOCK HAZARD

- 3-1 Insert an isolation transformer between the CRT display and AC power line before servicing the chassis.
- 3-2 In servicing pay attention to original lead dress especially in the high voltage circuit. If a short circuit is found, replace all parts which have been overheated as a result of the short circuit.
- 3-3 All the protective devices must be reinstalled per original design.
- 3-4 Soldering must be inspected for possible cold solder joints, frayed leads, damaged insulation, solder splashes or sharp solder points. Be certain to remove all foreign material.

#### 4 LEAKAGE CURRENT COLD CHECK

- 4-1 Unplug the AC cord and connect a jumper between the two prongs on the plug.
- 4-2 Turn the CRT display power switch "on".
- 4-3 Measure the resistance value with an ohmmeter between the jumpered AC plug and each exposed metallic part on the CRT display such as the metal frame, screwheads, control shafts, etc. When the exposed metallic part has a return path to the chassis, the reading should be 1.8 megohm minimum.

#### 5 LEAKAGE CURRENT HOT CHECK

- 5-1 Plug the AC cord directly into the AC outlet. Do not use an isolation transformer during this check.
- 5-2 Connect a 1500 ohm, 10 watt resistor, paralleled by a  $0.15\mu F$  capacitor between each exposed metallic part and a good earth ground (as shown in Fig.1).
- 5-3 Use an AC voltmeter with 1000 ohm/volt or more sensitivity and measure the AC voltage across the combination 1500 ohm resistor and  $0.15\mu F$  capacitor.
- 5-4 Move the resistor connection to each exposed metallic part and measure the voltage.
- 5-5 Reverse the polarity of the AC plug in the AC outlet and repeat the above measurement.
- 5-6 Voltage measured must not exceed 7.5 volt RMS, from any exposed metallic part to ground A leakage current tester may be used in the above hot check, in which case any current measured must not exceed 5.0 milliamp. In the case of a measurement exceeding the 5.0 milliamp value, a rework is required to eliminate the chance of a shock hazard.

Note: High voltage is present when this CRT display is operating. Always discharge the anode of the picture tube to the display chassis to prevent shock hazard.

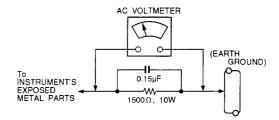


Fig.1

#### **6 IMPLOSION PROTECTION**

Picture tubes are equipped with an integral implosion protection system, but care should be taken to avoid damage and scratching during installation. Use only Panasonic replacement picture tubes.

#### 7 X-RADIATION

WARNING: The only potential source of X-Radiation is the picture tube. However when the high voltage circuitry is operating properly there is no possibility of X-Radiation problem. The basic precaution which must be exercised is to keep the high voltage at the following factory-recommended level.

Note: It is important to use an accurate periodically calibrated high voltage meter.

- 7-1 The procedure for adjustment high voltage is as shown on page 27.
- 7-2 If can not be adjust 25.0 kV at immediate service is required to prevent the possibility of premature component failure.
- 7-3 To prevent X-Radiation possibility it is essential to use the specified picture tube.

#### IMPORTANT SAFETY NOTICE

There are special components used in this CRT displays which are important for safety. These parts are identified by the international symbol  $\triangle$  on the schematic diagram and on the replacement parts list. It is essential that these critical parts should be replaced with manufacture's specified parts to prevent X-RADIATION, shock, fire or other hazards. Do not modify the original design or this will void the original parts and labor guarantee.

## GENERAL INFORMATION-

#### 1. OUTLINE

TX-D1733 is a 17 inch multi-scan color CRT display with the following features.

Multi scan Digital control
 OSD (On Screen Display) control
 Power saving
 High contrast and fine dot pitch CRT

#### 2. FEATURES

#### 2-1 Power Saving

- This monitor is equipped with power management circuitry conforming to the VESA standard.
  - Depending on the signal from a computer, switching occurs between four modes to minimize non-essential energy consumption.

#### 2-2 OSD (on screen display) function

 OSD (5 languages) is a man-machine interface.
 Any one is able to set up the picture as he like through OSD menu.

#### 2-3 Self Test function

 With a touch of a button ( 1 ) the self-test function quickly identifies a "no signal condition." This time saving function simplifies diagnostics and prevents unnecessary service calls.

#### 2-4 Power Supply with high power factor

 Power Supply with high power factor enables to utilize AC power efficiently meeting IEC555-2 (Line Harmonics).

#### 2-5 Ergonomic design

- Low emission design to meet MPR II
- ESF (Electro static field) free coating on CRT

#### 2-6 Multi scan with digital technology

 8 bit micro computer controls the circuit operation to meet with wide range signal of f<sub>H</sub> =30~69 kHz and f<sub>V</sub>=50~160 Hz. So VGA640x350, VGA640x400, VGA640x480, SVGA800x600, 1024x768 and 1280x1024 mode are applicable.

# 2-7 3 Factory presets, (+5 Reservation), 13 user memories.

- 3 standard modes are preset at the factory.
- 5 modes are reserved at the factory.
- 13 user memories are available to set the users own timing and display information.

#### 2-8 Flat Face and fine dot pitch

• Flat face CRT with a fine dot pitch of 0.27 mm provides for comfortable viewing.

#### 2-9 Superior display performance

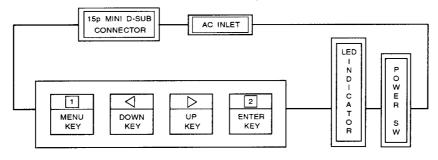
- Good focus by sophisticated gun and dynamic focus circuit
- High contrast CRT (TM=42.5%)
- Minimized distortion by correction circuit
- Good convergence
- Full scan image for graphics

#### 2-10 Plug and Play

VESA/DDC1 (Display Data Channel) compatible

## - SPECIFICATION -

### 1. DIAGRAM



- 1.2 Signal connector and AC inlet are located on the back side of the cabinet.
- 1.3 OSD menu includes the following function.

CONTRAST BRIGHTNESS DEGAUSS
H POSITION H SIZE V POSITION
V SIZE V PIN-CUSHION TRAPEZOID

PARALLELOGRAM COLOR SELECT

DISPLAY FREQUENCY VIDEO INPUT LEVEL LANGUAGES RECALL.

- ※) CONTRAST can be directly controlled with √/ > -key.
  - With sync signal, OSD menu appears by pushing 1-key.

Without sync signal, self test menu appears by pushing 11-key.

#### 2. MECHANICAL SPECIFICATIONS

..... refer to the attached drawing

**2.1** Dimension Height: 415 mm (16.3") typ.

Width: 410 mm (16.1") typ. Depth: 438 mm (17.2") typ.

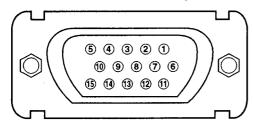
2.2 Net Weight

: 17.0 kg (37.4 lbs) typ.

#### 3. CONNECTORS

3.1 Signal connector: 15P Mini D-Sub connector 3.2 AC inlet: CEE 22 typed connector

#### <15P Mini D-Sub Pin assignment>



1 ... RED

6 ... GROUND 11 ... GROUND

2 ... GREEN

7 ... GROUND 12 ... SDA (DDC)

3 ... BLUE

8 ... GROUND 13 ... H. SYNC. 9 ... - (OPEN) 14 ... V. SYNC.

4 ... GROUND 5 ... GROUND (DDC) 10 ... GROUND 15 ... SCL (DDC)

#### 4. CRT SPECIFICATIONS

·	4
Part No.	M41KXH140X
Туре	17", 90°, 29ø, in-line gun (15.7" Viewable)
Dot Pitch	0.27 mm
Phosphor	R, G, B Short Persistence (Hi-Eu RED)
CIE Color point	Red x: 0.635 (± 0.020) y: 0.333 (± 0.020)
	Green x: 0.280 (± 0.020) y: 0.595 (± 0.020)
	Blue x: 0.152 ( $\pm$ 0.015) y: 0.063 ( $\pm$ 0.015)
Bulb	DARK TINT
Face	NEW AGRAS COAT
Total Transmission	42.5 %

#### 5. ELECTRICAL SPECIFICATIONS

#### 5.1 Standard conditions ... Except special items

Display image	Green, full "H" characters with a border
	line. (7 x 9 dots)
	Video siganl: 100% duty
	Display area: 300 mm x 225 mm
Video signal level	0.7 Vpp
Contrast, Brightness	Contrast : Max., Brightness : detent point
Ambient Temperature	20±5°C (68 ± 9°F)
Input Voltage	AC 120 V, 60 Hz
Terrestrial magnetism	Vertival field : northern hemisphere field (40 $\mu$ T) Horizontal field : no field
Viewing direction	Parallel to the CRT axis
Measurements	After an initial warming up time of more than 30 minutes.
Ambient light	200±50 IX
Display mode	1024 x 768 (60.02 kHz, 75.03 Hz)

#### 5.2 POWER

#### 5.2.1 Power supply ... Commercial power source

Input voltage	AC 90 - 132 V, AC 198 - 264 V
Power frequency	50/60 Hz
Input current	1.5 A Max. (100V) (*1)
Inrush current (at 20° C)	40 A op
Power consumption	100 W (Typ.)

(%1) Input current is reduced to about 60 % our current products by "High Power Factor" technology.

#### 5.2.2 Power Management for Power Saving ...

Power saving system is designed based upon VESA DPMS standard (Version: 1.0)

#### 1) Power consumption and recovery time.

*1 APM		SIGNALS	3	MONITOR RECOVERY POWER TIME		INDICATOR
State	H. Sync	V. Sync	VIDEO	CONSUMP- TION	TO ON STATE	INDIOATOR
ON	*3 NOR- MAL	*3 NOR- MAL	*2 ACTIVE	*4 100%		Green
STAND- BY	No Sync or *5 < 6 kHz	> 40 Hz	BLANK	< 30 W	< 4s	Yellow
SUS- PEND	>10 kHz	No Sync or *5 < 20 Hz	BLANK	< 30 W	< 4s	Yellow
OFF	No Sync or *5 < 6 kHz	No Sync or *5 < 20 Hz	BLANK	< 8 W	< 20s	Yellow

- \*\* The transition time from ON state to each APM state is 5 seconds minimum.
- \*1: APM: Advanced Power Management.
- \*2: Meas. Condition of power consumption for ON state.

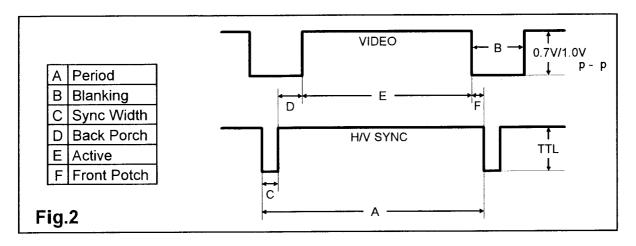
DISPLAY IMAGE: WHITE full "H" characters with a border line (7  $\times$  9 dots).

- \*3: NORMAL: See "7.4 ACCEPTABLE TIMING".
- \*4: Power Consumption is measured at AC 100-240V.
- \*5: Power saving operation is done at least less than specified value in the list.

#### 5.3 Standard timing (Standard mode)

- Following total 3 modes (5 modes) are preset (reserved) in the memory as standard timing at the factory.
- Fig-1 shows a definition of timing and signal level.
- Electrical performance is specified This SPECIFICATION is specified at STD (1024 x 768) mode unless otherwise mentioned. (MODE-2)

# TIMING CHART



## FOR PRESET

	MODE - 1	MODE - 2	MODE - 3
	640 × 480 (60)	1024 × 768 (75)	1280 × 1024 (60)
DOT CLOCK	25.1745 MHz	78.7500 MHz	109.4695 MHz
fH	31.4681 KHz	60.0229 KHz	63.7192 KHz
A - PERIOD	31.778 μs ( 800 dots )	16.660 µs ( 1,312 dots )	15.694 µs ( 1,718 dots )
B - BLANKING TIME	6.356 µs ( 160 dots )	3.657 µs ( 288 dots )	4.001 µs ( 438 dots)
H C - SYNC WIDTH	3.813 µs ( 96 dots )	1.219 µs ( 96 dots )	1.425 µs ( 156 dots )
D - BACK PORCH	1.907 µs ( 48 dots )	2.235 µs ( 176 dots )	2.174 µs ( 238 dots)
E - ACTIVE TIME	25.423 µs ( 640 dots )	13.003 µs ( 1,024 dots )	11.693 µs ( 1,280 dots)
F - FRONT PORCH	0.636 µs ( 16 dots )	0.203 µs ( 16 dots )	0.402 µs ( 44 dots)
f V	59.9393 Hz	75.0286 Hz	59.9992 Hz
A - PERIOD	16.684 ms ( 525 lines )	13.328 ms ( 800 lines )	16.667 ms ( 1,062 lines )
B - BLANKING TIME	1.430 ms ( 45 lines )	0.533 ms ( 32 lines )	0.596 ms ( 38 lines )
V C - SYNC WIDTH	0.064 ms ( 2 lines )	0.050 ms ( 3 lines )	0.047 ms ( 3 lines)
D - BACK PORCH	1.049 ms ( 33 lines )	0.466 ms ( 28 lines )	0.502 ms ( 32 lines )
E - ACTIVE TIME	15.254 ms ( 480 lines )	12.795 ms ( 768 lines )	16.071 ms ( 1,024 lines )
F - FRONT PORCH	0.318 ms ( 10 lines )	0.017 ms ( 1 lines )	0.047 ms ( 3 lines )
SYNC POLARITY(H/V)	Negative / Negative	Positive / Positive	Sync on green

## FOR RESERVATION

		MODE - 4	MODE - 5	MODE - 6
		640 × 480 (75)	800 × 600 (75)	MAC-II (832 × 624)
	DOT CLOCK	31.5000 MHz	49.5000 MHz	57.2830 MHz
	f H	37.5000 KHz	46.8750 KHz	49.7248 KHz
	A - PERIOD	26.667 µs ( 840 dots )	21.333 µs ( 1,056 dots )	20.111 µs ( 1,152 dots )
	B - BLANKING TIME	6.349 µs ( 200 dots )	5.172 µs ( 256 dots )	5.586 µs ( 320 dots )
H	C - SYNC WIDTH	2.032 µs ( 64 dots )	1.616 µs ( 80 dots )	1.117 µs ( 64 dots )
	D - BACK PORCH	3.810 µs ( 120 dots )	3.232 µs ( 160 dots )	3.910 µs ( 224 dots )
	E - ACTIVE TIME	20.317 µs ( 640 dots )	16.162 µs ( 800 dots )	14.524 µs ( 832 dots )
L	F - FRONT PORCH	0.508 µs ( 16 dots)	0.323 µs ( 16 dots )	0.559 µs ( 32 dots )
	f V	75.0000 Hz	75.0000 Hz	74.5500 Hz
	A - PERIOD	13.333 ms ( 500 lines )	13.333 ms ( 625 lines )	13.414 ms ( 667 lines )
	<b>B</b> - BLANKING TIME	0.533 ms ( 20 lines )	0.533 ms ( 25 lines )	0.865 ms ( 43 lines )
V	C - SYNC WIDTH	0.080 ms ( 3 lines )	0.064 ms ( 3 lines )	0.060 ms ( 3 lines )
	D - BACK PORCH	0.427 ms ( 16 lines )	0.448 ms ( 21 lines )	0.784 ms ( 39 lines )
	E - ACTIVE TIME	12.800 ms ( 480 lines )	12.800 ms ( 600 lines )	12.549 ms ( 624 lines )
L	F - FRONT PORCH	0.027 ms ( 1 lines )	0.021 ms ( 1 lines )	0.020 ms ( 1 lines )
	SYNC POLARITY(H/V)	Negative / Negative	Positive / Positive	Negative / Negative

### FOR RESERVATION

		MODE - 7	MODE - 8	
		1024 × 768 (70)	1024 × 768 (72)	
	DOT CLOCK	75.0000 MHz	75.0000 MHz	
	f H	56.4759 KHz	57.8704 KHz	
	A - PERIOD	17.707 µs ( 1,328 dots )	17.280 µs ( 1,296 dots)	
	B - BLANKING TIME	4.053 µs ( 304 dots )	3.627 µs ( 272 dots)	
H	C - SYNC WIDTH	1.813 µs ( 136 dots )	1.920 µs ( 144 dots)	
	D - BACK PORCH	1.920 µs ( 144 dots )	1.387 µs ( 104 dots)	
	E - ACTIVE TIME	13.653 µs ( 1,024 dots )	13,653 µs ( 1,024 dots )	
l	F - FRONT PORCH	0.320 μs ( 24 dots )	0.320 µs ( 24 dots)	
	fV	70.0694 Hz	71.7995 Hz	
	A - PERIOD	14.272 ms ( 806 lines )	13.928 ms ( 806 lines )	
	B - BLANKING TIME	0.673 ms ( 38 lines )	0.657 ms ( 38 lines )	
l v	C - SYNC WIDTH	0.106 ms ( 6 lines )	0.104 ms ( 6 lines )	
	D - BACK PORCH	0.513 ms ( 29 lines )	0.501 ms ( 29 lines )	
	E - ACTIVE TIME	13.599 ms ( 768 lines )	13.271 ms ( 768 lines )	
	F - FRONT PORCH	0.053 ms ( 3 lines )	0.052 ms ( 3 lines )	
	SYNC POLARITY(H/V)	Negative / Negative Negative / Negative		

## FOR ADJUSTMENT

		HV5 - 1	HV5 - 2	HV5 - 3
	DOT CLOCK	22.6000 MHz	40.2480 MHz	64.0400 MHz
	f H	29.5039 KHz	39.0000 KHz	53.9966 KHz
	A - PERIOD	33.894 µs ( 766 dots )	25.641 µs ( 1,032 dots )	18.520 µs ( 1,186 dots)
	B - BLANKING TIME	8.496 µs ( 192 dots )	3.926 µs ( 158 dots )	4.497 µs ( 288 dots)
H	C - SYNC WIDTH	4.115 µs ( 93 dots )	1.491 µs ( 60 dots)	1.718 µs ( 110 dots)
	D - BACK PORCH	2.788 µs ( 63 dots )	2.336 µs ( 94 dots )	2.186 µs ( 140 dots)
	E - ACTIVE TIME	25.398 µs ( 574 dots )	21.715 µs ( 874 dots )	14.022 µs ( 898 dots)
	F - FRONT PORCH	1.593 µs ( 36 dots)	0.099 μs ( 4 dots)	0.593 µs ( 38 dots)
	f V	48.0520 Hz	77.0751 Hz	105.0518 Hz
	A - PERIOD	20.811 ms ( 614 lines )	12.974 ms ( 506 lines )	9.519 ms ( 514 lines )
	B - BLANKING TIME	0.915 ms ( 27 lines )	0.744 ms ( 29 lines )	0.482 ms ( 26 lines )
V	C - SYNC WIDTH	0.102 ms ( 3 lines )	0.103 ms ( 4 lines )	0.037 ms ( 2 lines )
	D - BACK PORCH	0.712 ms ( 21 lines )	0.513 ms ( 20 lines )	0.352 ms ( 19 lines )
	E - ACTIVE TIME	19.896 ms ( 587 lines )	12.231 ms ( 477 lines )	9.038 ms ( 488 lines )
	F - FRONT PORCH	0.102 ms ( 3 lines )	0.128 ms ( 5 lines )	0.093 ms ( 5 lines )
	SYNC POLARITY(H/V)	Negative / Negative	Negative / Negative	Negative / Negative

## FOR ADJUSTMENT

		HV5 - 4
	DOT CLOCK	93.4300 MHz
	fH	69.9850 KHz
	A - PERIOD	14.289 µs ( 1,335 dots)
	B - BLANKING TIME	3.329 µs ( 311 dots)
H	C - SYNC WIDTH	1.092 µs ( 102 dots )
	D - BACK PORCH	1.820 µs ( 170 dots )
	E - ACTIVE TIME	10.960 μs ( 1,024 dots)
	F - FRONT PORCH	0.417 μs ( 39 dots)
	f V	165.0590 Hz
	A - PERIOD	6.058 ms ( 424 lines )
	B - BLANKING TIME	0.457 ms ( 32 lines )
V	C - SYNC WIDTH	0.043 ms ( 3 lines )
	D - BACK PORCH	0.343 ms ( 24 lines )
	E - ACTIVE TIME	5.601 ms ( 392 lines )
	F - FRONT PORCH	0.071 ms ( 5 lines )
	SYNC POLARITY(H/V)	Negative / Negative

#### 5.4 Acceptable timing

• If your timing is within following specification, this CRT display can automatically function with a certain size and position.

Horizontal: Sync frequency: 30.0 ~ 69.0 kHz

Blanking Time:  $\geq 3.0 \,\mu s$ Back Porch:  $\geq 1.25 \,\mu s$ Front Porch:  $\leq$  Back Porch Sync Width:  $\geq 1.2 \,\mu s$ 

Vertical: Sync frequency: 50.0 ~ 160.0 Hz

Blanking Time: ≥ 0.5 ms
Back Porch: ≥ 0.4 ms
Sync Width: ≥ 0.045 ms

 Several items like size, position and distortion can be adjusted through OSD menu, and if you want to keep it, please push the key for memory, or keep the key untouched for about 20 seconds, it is automatically memorized.

NOTE: In case of RECALL, the key is untouched for about 30 seconds, RECALL function will be canselled.

Please note, however, that there is the case you can not get the size and/or position you want, (for example, in case Display video Time is too short, you can't get bigger size of the image.)

 The CRT adopted in this CRT display is designed to minimize the moire phenomenon at suitable size for typical display modes. However, there might be a display format among many formats, in which the moire phenomenon appears on this display.

#### 5.5 Signal level and input impedance

#### 5.5.1 Video Signal level

This CRT display is adjusted at the factory using 0.7V p-p Video Signal, Black level is 0V.

#### 5.5.2 Sync Signal level

•H/V Separate, H/V Mixed : TTL level

•Sync on Green: 0.3 V p-p

#### 5.5.3 Input impedance

•Video input:  $75 \Omega$ •Sync input:  $\geq 1 k\Omega$ 

#### 5.6 Display performance

#### 5.6.1 Display area

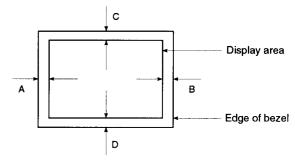
#### 1) PRESET TIMING

(MODE 1 & 2) (MODE 3) WIDTH : 300 mm ± 5 mm 286 mm ± 5 mm HEIGHT : 225 mm ± 5 mm 229 mm ± 5 mm

#### 5.6.2 Centering

1) PRESET TIMING (MODE1~3)

 $IA - BI \le 5 \text{ mm}$  $IC - DI \le 5 \text{ mm}$ 

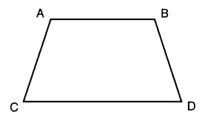


#### 5.6.3 Distortion

1) Trapezoid

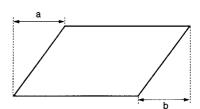
$$\frac{AC - BD}{AC + BD}$$
 x 100 \le 1 %

$$\left| \frac{AB - CD}{AB + CD} \right| \times 100 \le 1 \%$$



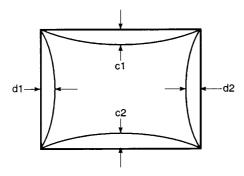
#### 2) Parallelogram

 $a, b \le 2 mm$ 



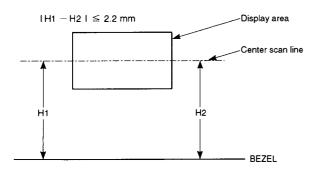
#### 3) Pincushion and Barrel

 $|C1|, |C2| \le 2.5 \text{ mm}$  $|d1|, |d2| \le 2.5 \text{ mm}$ 



#### 5.6.4 Rotation

IH1 – H2I ≤ 2.2 mm



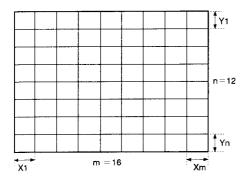
#### 5.6.5 Linearity

Horizontal linearity

$$= \frac{X \text{ max.} - X \text{ min.}}{X \text{ max.} + X \text{ min.}} \times 100 \% \le 6 \%$$

Vertical linearity

$$= \frac{\text{Y max.} - \text{Y min.}}{\text{Y max.} + \text{Y min.}} \times 100 \% \le 5 \%$$



#### <Conditions>

Display image ----- crosshatch pattern Maximum and minimum values should not be adjacent to each other.

X max. is maximum value among X1~Xm X min. is minimum value among X1~Xm

Y max. is maximum value among Y1~Yn Y min. is minimum value among Y1~Yn

#### 5.7 General performance

#### 5.7.1 Video output

Bandwidth	86 MHz (Typ.)	

#### 5.7.2 Maximum luminance

	120 cd/m² (Typ.) for 5% white field at the		
	center of the display area.		
Value	110 cd/m² (Typ.) for 100% white field at		
	the center of the display area.		
	Specified by 9300 K + 27 MPCD		
Conditions	Display image: White full flat field		
	Luminance: Max. (Contrast: Max.)		
	(Brightness :Detent point)		

#### 5.7.3 Minimum luminance

	≤ 26 cd/m² at the center of the display
Value	area.
	Specified by 9300 K + 27 MPCD
	Display image: White full flat field
Conditions	Luminance : Min. (Contrast : Min.)
	(Brightness : Detent point)

#### 5.7.4 Brightness variation

Value	70 % (Min.) Variation = C/A X 100
Conditions	Display image: White full flat field  Luminance: MAX (Contrast: MAX)  (Brightness: Detent point)  A; Luminance at center position
	C; Luminance at position of lowest brightness

#### 5.7.5 Display area regulation

	Display area variation	Range of variation
Due to	within 1.5 % of display	26~110 cd/m²
Luminance	area	(white flat field)
Due to	within 1.5 % of display	AC: 90-132 V
Power Supply	area	or 180-264 V
Due to	within 2 % of display	0 - 40° C
Temperature	area	(fh=30-65 kHz)

#### 5.7.6 Color Point

< Conditions >

Display image: White flat field at the center of

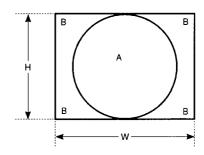
the display area.

Luminance : Brightness Detent point.

Contrast	max	min
	9300 K + 27 MPCD	9300 K + 27 MPCD
Value	$x = 0.281 \pm 0.020$	$x = 0.281 \pm 0.020$
	$y = 0.311 \pm 0.020$	$y = 0.311 \pm 0.020$

#### 5.7.7 Misconvergence

Center area of display (A): 0.3 mm (Max.)
Corner area of display (B): 0.4 mm (Max.)



<Conditions>

Display image : Crosshatch pattern mixed

with R, G and B colors.

Convergence gauge: KLEIN CM7AG or equiva-

lent.

Display area : W x H 300 x 225 mm

#### 5.7.8 Purity

Conspicuous mislanding shall not be visible within display area at a distance of 60cm from CRT surface.

<Conditions>

Display image: White flat field

Luminance : Contrast max, Brightness

Detent point.

#### 5.7.9 Jitter

Invisible at a distance of 60 cm from CRT surface.

#### 6. ENVIRONMENTS

#### 6.1 Ambient temperature, humidity and altitude

	Operating	Storage and
		shipment
Temperature	0 ~ 40° C *1	−20 ~ +60° C
	(fh = 30-65  kHz)	(-4 ~ 140° F)
Humidity	5 ~ 90 % *2	5 ~ 90 % *2
Altitude	3,000 m (Max.)	12,000 m (Max.)
	(10,000 ft)	(40,000 ft)

<sup>\*1 0 ~ 35°</sup> C for 66 ~ 69 kHz

<sup>\*2</sup> Non-condensation

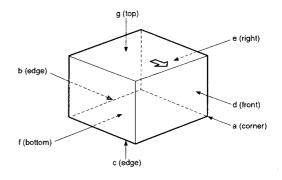
#### 6.2 Vibration and shock

#### 6.2.1 Vibration

	Order	Dire	ction	Accel	eration			
	of		of	Non-	Storage and	Frequency	Sweep	Test time
	tests	vibra	ation	operation	shipment		!	
	4	Vertical	Up to					30 min.
	'	vertical	down					30 mm.
Linnadicad	2		Front to	2.9 m/s <sup>2</sup>		5 - 55 Hz	120 s	
Unpacked	2	Llorizontol	back	(0.3 G)		3 - 33 112	1205	15 min.
	3	Horizontal	Right to					15 111111.
	3		left		:/			
	1	Vertical	Up to		10m/s²			40 min.
ļ	<u> </u>	vertical	down		(1.0 G)			40 111111.
Dealtad	2		Front to	/	•	5 - 50 Hz	810 s	
Packed	4	   Horizontal	back		5 m/s²	3 - 30 112	0105	20 min.
		nonzontai	Right to		(0.5 G)		Logsweep	20 11111.
	3		left					

#### 6.2.2 Shock (Drop test)

Unpacked	20 G On	e time for each face (	6 faces) (	non-operation)
Packed	Order of drop	Face to drop is to face the floor. (See the figure)	Height	Number of drop
	1	a, b, c, d, e, g	40 cm	1 time for
	2	f	55 cm	each



#### 7. REGULATORY STANDARDS

#### 7.1 Safety standards

Applicable standards

UL 1950, Listing

CSA 22.2 No. 950, Products Certification

TüV (IEC-950)/GS (ZH1)

DHHS, 21 CFR subchapter J, X-Ray Radiation

PTB, X-Ray Radiation, Approval

HWC

NORDIC

**Energy Star** 

#### 7.2 EMC standards

Designed to meet following standards

VCC | class II

FCC: FCC part 15, subpart B, class-B

VDE 0878/06.83

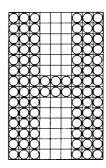
Vfg 243/1991

CISPR22 class B

MPR-II Radiation

#### <EMI test pattern>

White, full "H" characters (9 x 14 dots), block (12 x 24 dots) "H" character font is as follows:



#### 8. POWER CORD

UL and CSA approved AC power cord is put in packaged. Length: 2.0 meter (6.56 feet) if you use in other country (for example Germany), please use a power cord approved by safety agency of each country (VDE in Germanu).

#### 9. SIGNAL CABLE

Signal cable with Mini D-Sub 15P connectors at both end is put in package.

Length: 1.5 meter (4.93 feet)

#### 10. COLOR CRT DEFECTIVE STANDARD

#### 10.1 Specification of screen blemishes

This instruction is applied to inspection of the screen faults and of the glass quality of the faceplate.

#### 10.2 Test procedure

- 10.2.1 Tests are to be done under the following two conditions:
  - (a) With a blanked white raster at 80  $\mu$  A.
  - (b) With incident light (white light of 700 1000 lux at the center of the screen; tube is not operated).
- 10.2.2 Viewing distance should be 60 cm minimum. Faults not visible at this viewing distance are permitted.
- 10.2.3 The Following quality areas are specified:
  - Zone A: Rectangular area (sides X and Y) of which the point of intersection of the diagonals coincides with the mechanical center of the screen.
  - Zone B: The remaining screen area except zone A.

Specifie zone is applied to glass faceplate defects.

	Scree	n size
	Х	Υ
Zone A	293 mm	219 mm

#### 10.2.4 Remarks concerning faults:

a)Unless otherwise specified, the size of a fault is the smallest value found with one of the two formulas:

$$\frac{a+b}{a}$$
,  $\frac{a}{20}$  + 2b (a = length, b = width)

b)For entirely or partially missing and/or nonfluorescent phosphor dots hold the following definitions:

Entire defect:

Remaining part is not more than

50% of the complete dot.

Partical defect: Remaining part is between 50%

and 75% of the complete dot.

#### 10.3 Permissible limit

#### 10.3.1 Screen faults

Missing phosphor dots, black spots, filled mask holes and copper stains

			Size of defects	Max. permis- sible number	Min. permissible distance between defects	Max. permissible number in circle of \$50 mm
		A1	3 adjacent trios or more	0		
	Α	A2	3 adjacent same color dots or more	0	<del>_</del>	_
		АЗ	More than 6 adjacent dots	0		
		В1	2 adjacent trio	0		
Entire	В	B2	4 or 5 adjacent dots	0		_
defects		ВЗ	2 adjacent same color dots	1		
:		C1	1 trio	1		
	С	C2	2 adjacent different color dots	2	20 mm	_
		СЗ	1 dot	7		:
			B + C		20 mm	
Partial defects		)	Partial defects	<u>—</u>	_	5
Total pied	ces of	defec	ets excluding partial defects	7	_	_

- Entire defects having separation less than min. permissible distance are defined as an adjacent defects.
- Defects of remaining part more than 75% is ignored, except for concentration having diameter more than ∮8 mm.

#### 10.3.2 Glass faceplate defects

(A) Air bubbles, open bubbles, stones and elongated air bubbles.

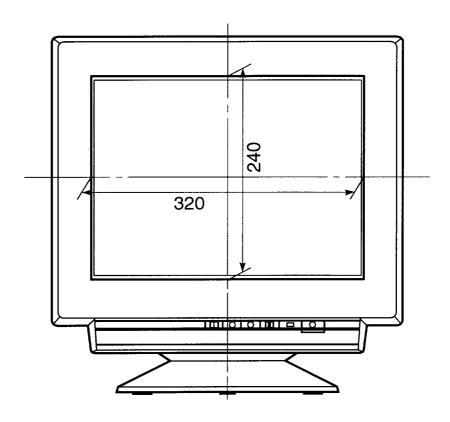
	Area		Zone A	Zone B
	Air Bubble. (average dia.)		0.51 — 0.70 mm	0.51 — 0.70 mm
	Spot and open air bubble (average	ge dia.)	0.41 — 0.60 mm	0.41 — 0.60 mm
Permissible major defects	Maximum Permissible number	Each zone	1	1
	Maximum Permissible number	Total		2
	Minimum allowable distance amo	ng defects	57	mm
	Air Bubble. (average dia.)		0.25 —	0.50 mm
Permissible defects within	Spot and open air bubble (average	ge dia.)	12.7 mm	
any 50 m-dia,-circle	Max. permissible number			2
	Δ Minimum allowable distance an	nong defects	0.20	0.40 mm
ΔΔ Elongated air bubble (pe	armissihla siza)	Width	0.10 — 0.20 mm	0.10 — 0.30 mm
22 Elongated an bubble (pe	ittiiooibio oizoj	Length	4.0mm	6.0 mm

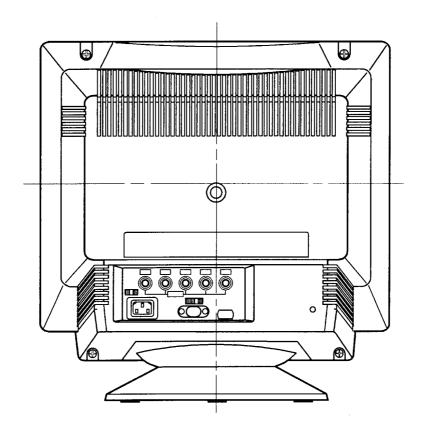
- $\Delta$   $\;$  This is also applied to the distance to major defects.
- $\Delta\Delta$  This should be evaluated by its average diameter, and then relevant standards of air bubble are applied except number of defects for each zone, minimum distance among defects and maximum limit of average diameter.

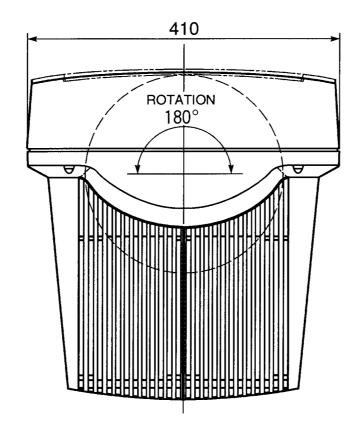
#### (B) Scratches

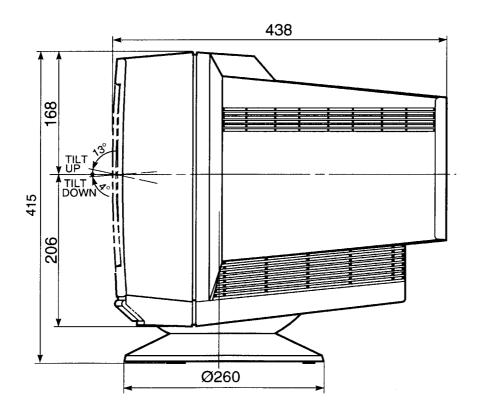
Width (mm)	Maximum allowable length (mm)
< 0.05	permitted
0.05 - 0.10	25.4
0.11 - 0.15	12.7
> 0.15	rejected

(C) Other defects not stated above such as chips, cracks, bruises, shear marks, clouds and polished patterns are not allowed when they substantially spoil appearance, viewed from the viewing distance.







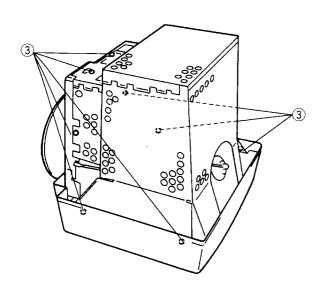


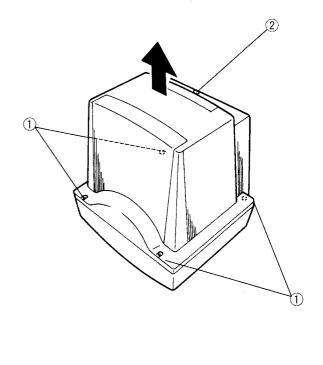
## DISASSEMBLY INSTRUCTIONS

#### 1. Rear cover removal

Note: Spread a mat underneath to avoid damaging the CRT surface.

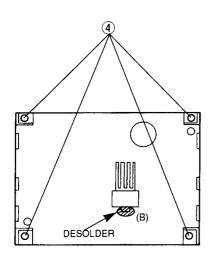
- 1) Remove four large screws ① and small screw ② from the rear cover.
- 2) Remove the cover.
- 3) Remove eight screws ③ from the shield case.
- 4) Remove the shield case.

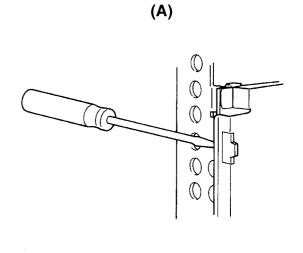




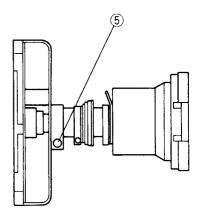
#### 2. Video PCB removal

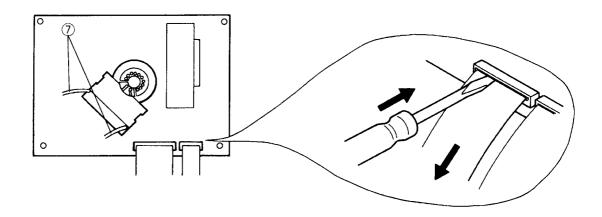
- 1) Remove four screws 4 securing the shield cover.
- 2) Desolder (B) and Remove the shield cover (A).

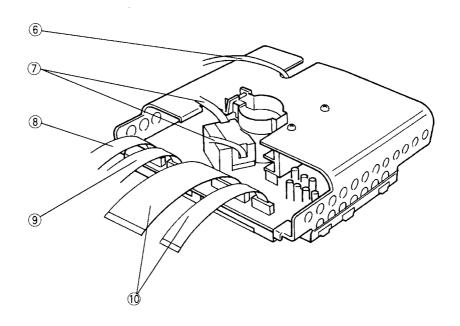




- 3) Loosen the screw ⑤ securing the CRT neck and the shield case.
- 4) Remove the PCB block from the CRT.
- 5) Desolder and remove the N382B connector ⑥.
- 6) Remove two focus leads ① after pulling up the focus lead securing lever.
- 7) Remove ground connector (§) (N106) connected to the PCB.
- 8) Remove two flexible PCBs 10.
- 9) Remove N104B connector 9.
- 10) Remove the PCB from the shield case.

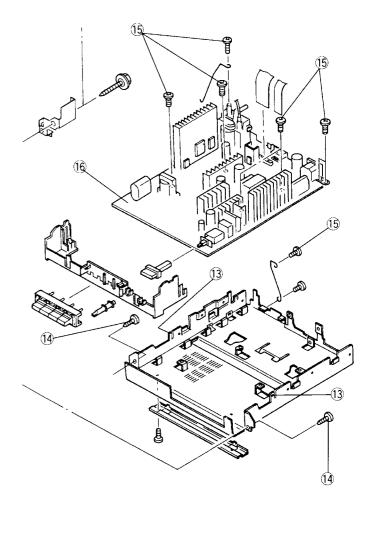


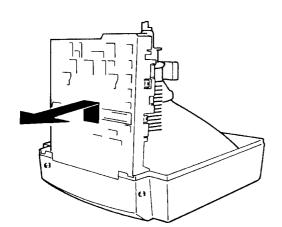


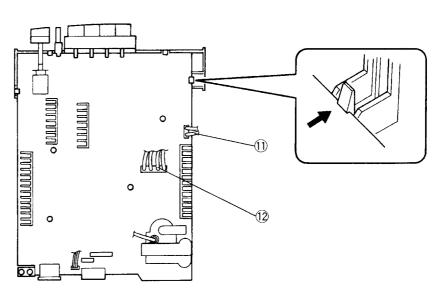


#### 3. Main PCB Removal

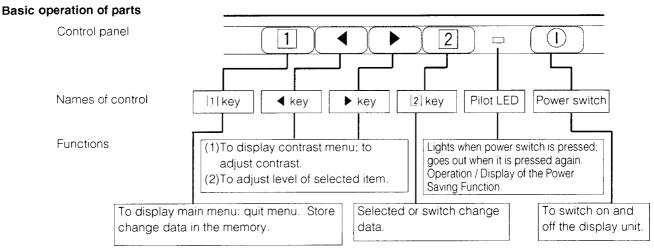
- 1) Remove the connector ① (N802) of the degauss coil.
- 2) Remove the DY connector 12.
- 3) Remove the anode cap.
- 4) Remove two ground connector 13.
- 5) Move the CRT face down and remove two screws 14 securing the bottom fitting metal.
- 6) Remove the fitting metal and the PCB from the cabinet.
- 7) Remove eight screws (§) securing the fitting metal and PCB.
- 8) Remove the PCB 16 with the figure referenced.





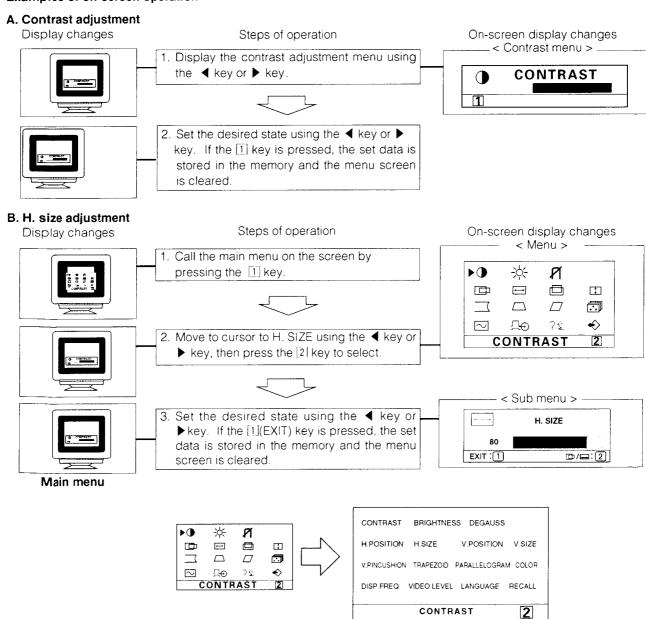


## CONTROL LOCATION



<sup>\*</sup> For a detailed description of the functions of the ① key, ◀ key, ▶ key, and ② key, refer to the next section onward.

#### Examples of on-screen operation



## **CAUTION FOR ADJUSTMENT AND REPAIR-**

- 1. Degaussing is inevitably required at purity adjustment or convergence adjustment.
- 2. If you check or adjust electrical specification or function, more than 20 minutes burn-in is required.
- Reforming of the lead wire is required after your repair work.
- 4. Prior to starting work, be sure to check that the input signal is at the specified timing and that the polarity is as specified in all modes.
- 5. Brightness control: After mounting the rear cover, brightness tends to decrease about 5 cd/m² on a flat white field and about 1 cm/m² on a white raster field. This should be taken into consideration.
- Brightness stabilizing time: It takes about 20 to 50 seconds for the brightness to stabilize after turning the power off for 5 seconds (AC). Therefore, care should be taken to this.
- 7. Aging should be made in white raster of  $30 \sim 50$  cd/m² and raster size,  $320 \times 240$  mm before adjusting the ITC.
- 8. Set the CONTRAST to MAX and BRIGHTNESS to CENTER using the O.S.D.

## CAUTION FOR SERVICING

When servicing or replacing the CRT, high voltage sometimes remains on the anode. So, completely discharge high voltage before servicing or replacing the CRT so as to prevent a shock to the service person.

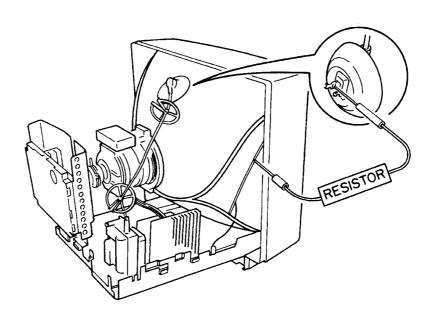
#### **CRT Anode Discharge**

- When you check the CRT anode or replace the CRT, discharge the CRT anode to the external conductive coating (aquadag) of CRT, especially when checked right after power turn-off.
- 2. Ground one end of a jumper wire which has a resistor (30 kV < resisting pressure 100 M $\Omega$ ) and connect the other point to the CRT anode.

Note: Grounding must be done first.

This model has a section that does not share a common ground with the power supply section. The different sections are referred to as the HOT section and the COLD section in the precautions below.

- Do not touch the HOT section and the COLD section at the same time. You may be hit by an electric shock.
- 2. Do not short the HOT section to the COLD section. This could blow the fuse or damage parts.
- Never measure the HOT section and the COLD section at the same time when using tools such as oscilloscopes or multimeters.
- 4. Always unplug the unit before beginning any operation such as removing the chassis.



## -ADJUSTMENT AND CHECK PROCEDURE -

#### INTRODUCTION

 This monitor is controlled by a microcomputer. With the exception of purity/convergence/focus all is digitally adjusted.

Therefore a computer, the dedicated control software, the dedicated interface, a 9~12 V power supply, and a signal generator are required servicing.

#### **TOOLS REQUIRED**

#### Computer

The control software is IBM PC compatible only. Therefore, it is not compatible with any other operating systems. For further information please contact our sales office.

#### Control Software

The HV5 chassis can only use "TXD1733 adjustment program disk". No other program can access the EEPROM on the monitor. For further information please contact our sales office.

#### Interface

The interface is dedicated to work only with the control software and the HV chassis. There are no substitutes for this interface. For further information please contact our sales office.

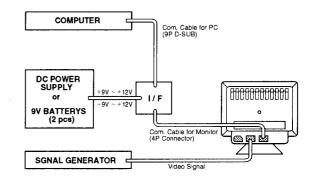
#### Power Supply

A DC  $9\sim12$  V ( $+9\sim12$  V/ $-9\sim12$  V) power supply is required for operating the interface.

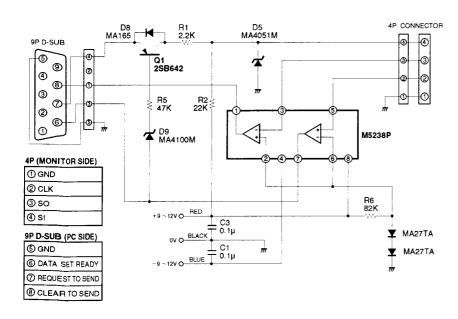
#### • Signal Generator

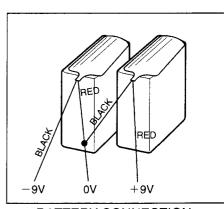
It is necessary for you to use a signal generator which operates on fH 82 kHz, fv 160 Hz, and fc 135 MHz bands.

#### INTERFACE CONNECTION



#### **INTERFACE SCHEMATIC DIAGRAM**





**BATTERY CONNECTION** 

#### **OTHER TOOLS**

• Oscilloscope (dual trace)

• Scope probe - Attenuation: 100:1

Attenuation: 10:1

• Digital Voltmeter - Range: 0 to 1000 V DC

Accuracy: 0.1 %

TV color Analyzer II – that reads luminance and chro-

maticity X and Y coordinates.

Digital High Voltmeter

• AC power supply - Output voltage: 0 to 300 V

Degaussing coil

· Convergence meter

• Scale

Double-faced scale

• Microscope - Scale factor: 50

· White racquer (Paint)

# STANDARD CONDITION OF ADJUSTMENT PROCEDURE

• Signal timing: Standard timing 1024 x 768

(See page 5)

Display pattern : White, full "H" character
 Signal level : V/H: TTL level video: 700 mV

Input source : AC 120 V, 60 Hz
 Ambient temperature : Room temperature
 Warm-up time : More than 30 minutes

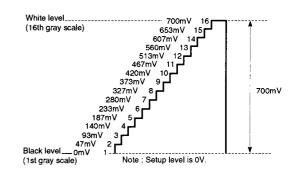
Brightness control : CenterContrast control : Max.

Magnetic field : Vertical: 40 μT

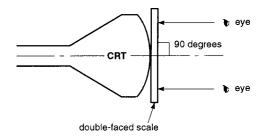
Horizontal: 0 μT

Signal cable : Attached

Video input signal from PC.



- Use a Helmholtz device to adjust an unit with no horizontal magnetic field and a vertical field of 40 μT.
   Inspect the unit under the same conditions.
- The ambient illuminance must be 200 lux.
- Use an external degaussing coil any time the DEGAUSS switch does not remove color shading.
- To check the image width, height, linearity and distortion, proceed as below.



Measure level with respect to tube axis.

## **ADJUSTMENT SOFTWARE-**

#### 1. Software operating procedure

- A) Power on the computer.
- B) Connect the Communication cable for monitor adjustment.
- C) Insert the adjustment disk into the drive.
- D) At the A:> prompt type "VSR", then press [ENTER].

A function to identify the connected monitor is provided to prevent accidents due to erroneous use of the HV5 chassis program. If this program is used for any monitor other than the HV5, the message reading 'This monitor is not an HV5 chassis. All further activity has been prevented' is displayed and the operation is stopped.

E) Refer to the adjustment procedures.

#### 2. Adjustment Program

Main Menu of Adjustment Program

<<HV5 ADJUST PROGRAM MAIN MENU>> (e: exit) < Ver \*.\*>

- 1) Load data from FILE
- 6) Clear User preset
- 2) Adjust H. OSC freerun
- 7) Save data to FILE
- 3) Adjust VSR setting
- 8) Special ADJUST
- 5) Adjust Von Setting
- O) Information Carvia
- 4) Adjust OTHER setting
- 9) Information Service
- 5) Adjust Factory preset
- 10) Show Version & Error

#### Description of Function of Each Menu

#### 1) Load Data from File

This transfers the data file from the disk to the EEPROM on the monitor.

#### 2) Adjust H. OSC Freerun

To guarantee that the full range of horizontal frequencies operate correctly. The reference oscillation frequency should be set.

#### 3) Adjust VSR Setting

To guarantee that the full range of horizontal frequencies operate correctly. The reference voltage and the distortion offset data should be set.

#### 4) Adjust Other Setting

This is used to control the brightness and color.

#### 5) Adjust Factory Preset

Makes adjustments to the factory presets. This data is also referenced when in modes other than tha preset mode.

#### 6) Clear User Preset

Clear the data written in the user preset domain. There is no data in the user presets when the product shipped from the factory.

#### 7) Save Data to File

Transfers the data from the EEPROM on the monitor to a data file on a fkoppy disk or hard drive. The data file can be named anything as long as it is less than 8 characters long.

#### 8) Special Asjust

This menu has the following functions

- ① Related data is automatically set on the basis of adjustment results to save the time for adjustment. (Example: Color adjustment applies only to the 9300 K, while 6550 K and user color data are automatically set.)
- ② To prevent operation errors in changes of various type of control flags, these flags are automatically returned to the default settings (Final Tune).

#### 9) Information Service

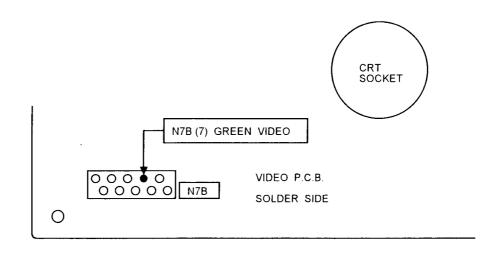
Displays the H/V frequencies that is being supplied to the monitor and gives the operational status of the monitor.

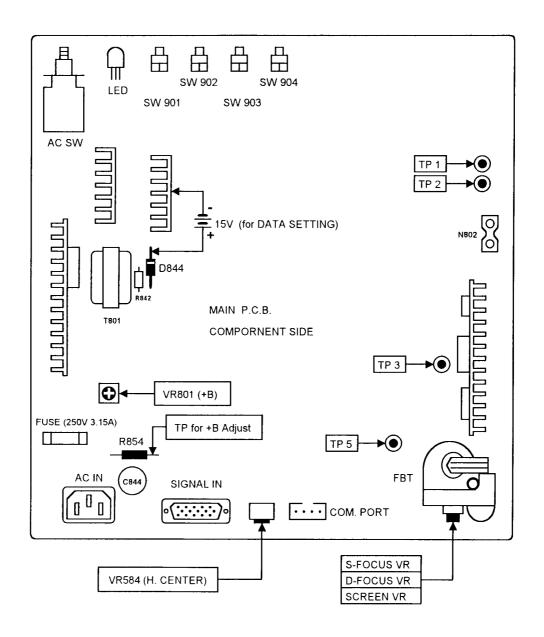
#### 10) Show Version and Error

Shows the version of the microprocessor that is in the monitor. Also, if there is an erroe in the operation of the monitor.

The error is displayed on the screen of the PC.

## SERVICE ADJUSTMENT CONTROL LOCATION





REQUIRED ADJUSTMENT PROCEDURE AFTER A PARTS IS REPLACED (< IS REQUIRED)

								REF	REPLACED	) PARTS	ပ						
	ADJUSTMENT ITEM	M G O B B B	VIDEO P.C.B.	CRT DY FBT	101301 101302 101303 10351	01000 01000 01100 01100 01201 01200	IC820 PC830 Q801 Q802 Q803	10501	1C504	1C401 1C490 1C601 0A94 0A95 0574	IC550	0680 Q680	Q584 Q585 L681	0550	10901	1C902	
∢	DATA SETTING *	>														>	
В	+B ADJUST	^					<b>/</b>										
ပ	H. FREE RUN	^						^								>	
Δ	H. DRIVE DUTY	^						^	^							>	
Ш	H. DRIVE +B	~						1			<b>/</b>					<b>&gt;</b>	
ш	ЕНТ	^		^						L		<b>/</b>		>		<b>&gt;</b>	
ტ	H. CENTER	<i>^</i>		^									^			^	
I	H.V. SIZE / POSI V.PCC (1)	>		`				>		>				`>		`>	
_	H.V. SIZE / POSI V.PCC (2)	>		>				>		^				`		`>	
	BRIGHTNESS, COLOR	>	^	>	^	^										>	
¥	FOCUS	>	>	>	>	`											
اــ	FINAL TUNE	^	_	_	_	/	^	^	>	<i>&gt;</i>	<b>&gt;</b>	<i>&gt;</i>	^	^	/	^	
Σ	DATA SAVING	^		^	^	^	^	<b>/</b>	/	<b>/</b>	^	<i>&gt;</i>	^	^	^	^	
	PURITY & CONVERGENCE			`>													
	SCREEN CHECK	>	>	>	>	>	>	>	>	`>	>	>	`>	`>	>	>	

\* (A) DATA SETTING: Do not load standard data except when main P.C.B. and IC902(EEPROM) are replaced.

## ADJUSTMENT PROCEDURE ----

## 1. Description of Adjustment Method

	ITEM		JOB	Input	Operation	Adjusting Value
	Program Menu	☐ Pattern	CODE	Signal		
	STANDARD DATA SETTING 1) Load data from FILE	▼ D844 - GND Refer to service adjustment control location on page 23	A1 A2		Do not connect the power and signal cable to monitor. Apply 15V to D844 CATHODE and GND. ( Do not apply 5V to IC901. Because IC876 supply 5V and RESET signal to IC901)	
			А3		Set the cell to the menu at left and press 🖭	
A			A4		A massage  FILE -> EEPROM FILE NAME (q or Q escape) []: is displayed. So key in the DACDATA.DAT (when using the standard data) and press •	
			AE		Disconnect 15V cable, then turn on the power switch of the monitor.	
	Do not	t load standard	data e	except	when Main P.C.B. and EEPROM are replace	ed.
В	+B ADJUST	<ul> <li>Digital voltmeter</li> <li>▼ R854</li> <li>Refer to service adjustment control location on page 23</li> </ul>	B1 B2	Mode-2	Check that the input signal to the monitor is [fH 60.0KHz] and [fV 75.0Hz] and press ☑. Make the adjustment to the value shown at right by turning the VR801 on the main PCB.	98V +2 / -1V
	H. FREE RUN 2) Adjust H. OSC freerun		C1 C2	10/5.4	Set the cell to the menu at left and press   Set the cell to the adjusting mode INTP [0] and press	
		☐ Crosshatch	C3 C4	HV2-1	Check that the input signal to the monitor is [fH 29.5KHz] and [fV 48.0Hz] and press ⊡. When the screen image has stabilized, press ⊡ to return to menu of C2.	<b>4</b>
С			C5 C6		Input signal [fH 39.0KHz] and [fV 77.1Hz] Select Adjusting mode <u>INTP [1]</u> , and repeat above procedure.	
			C7 C8	HV5-3	Input signal [fH 54.0KHz] and [fV 105.0Hz] Select Adjusting mode <u>INTP [2]</u> , and repeat above procedure.	
			C9 C10	HV5-4	Input signal [fH 70.0KHz] and [fV 165.0Hz] Select Adjusting mode <u>INTP [3]</u> , and repeat above procedure.	
			CE		Press 🗉 to return to main menu.	

Note 1: Check to be sure that the program disk name is **TXD1733** before making necessary adjustment.

Note 2: Unless otherwise specified, the monitor state is as given at right.

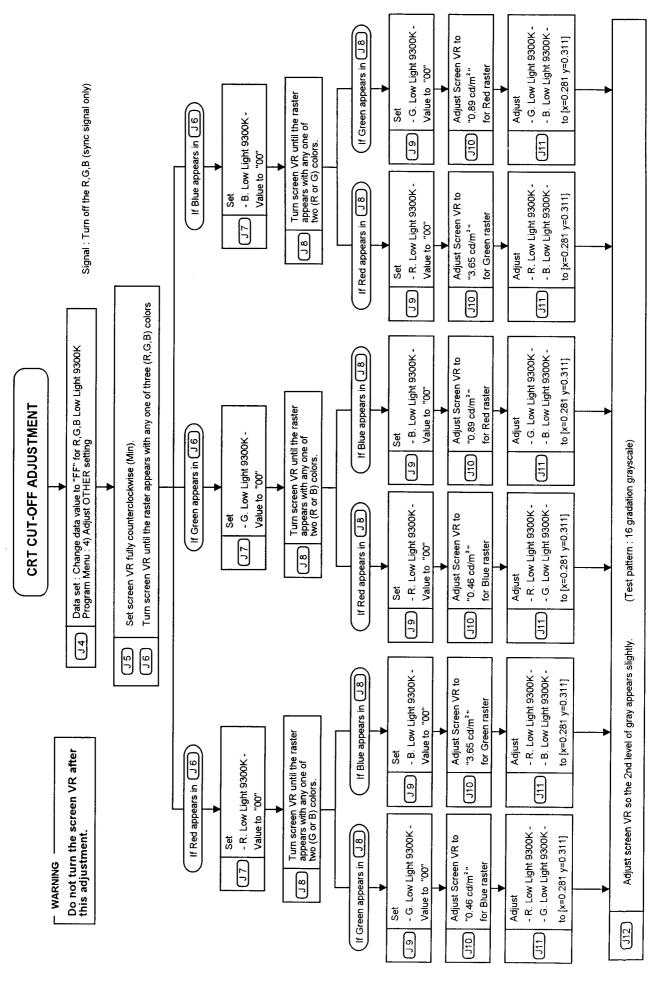
Note 3: The underlined places indicate the adjustment items on the screen of the PC.

	ITEM Program Menu	<ul><li> Test Meter</li><li>▼ Test Point</li><li>□ Pattern</li></ul>	JOB CODE	Input Signal	Operation	Adjusting Value
к	FOCUS	☐ Character	K1 K2 K3 K4	MODE-2	Check that the input signal to the monitor is [fH 60.0KHz] and [fV 75.0Hz].  Make the corner sections of the screen optimum by turning D-FOCUS VR on the FBT.  Make the center section optimum by turning S-FOCUS VR on the FBT.  Repeat K2 and K3 to make it optimum.	
	FINAL TUNE 8) Special ADJUST		L1 L2 L3 L4 L5 L6 L7 L8 L9		Set the cell to the menu at left and press ②.  Select the <code>9:FINAL TUNE</code> from the menu.  (Step 1):Data tuning.  This messages will appear: <loading data="" eeprom="">end  <tuning data="" eeprom=""> end  <tuning data="" eeprom=""> end  <saving data="" eeprom="" to=""> end  <recall -="" data="" preset=""> wait a  moment  (Step 2):Erase user preset data.  Erase All ' user preset data OK ? &gt;  Press ② ④, go to L6.  (Step 3):Calcalate color data.  COLOR 6550K data OK ? &gt;, press ② ④.  USER COLOR data OK ? &gt;, press ② ④.  ABL data OK ? &gt;, press ② ④.  finished . ( Hit return key )  Press ④, go to L8.  (Step 4):Set brightness data and flag.  BRIGHT click data OK ? &gt;, press ② ④.  BRIGHT min./max. limiter automatically OK ? &gt;, press ② ④.  end  <set flag="">  wait a moment end  tune end .  Hit return key!  Press ④, return to menu of L2.  Press ⑤ Teurn to the main menu.</set></recall></saving></tuning></tuning></loading>	
М	<b>DATA SAVING</b> 7) Save data to file		M1 M2		Set the cell to the menu at left and press   Key in the file name after []:.  Use serial number as a file name (EXAMPLE: FF5110001 = "F5110001.DAT")	

	ITEM Program Menu		JOB CODE	Input Signal	Operation	Adjusting Value
F	EHT ADJUST  3) Adjust VSR setting  8) Special ADJUST	☐ RGB off (Sync only)	F1 F2 F3 F4 F5 F6 F7 F8	HV5-4	Set the cell to the menu at left and press ②.  Set the cell to the adjusting mode INTP[3] and press ③.  Check that the input signal to the monitor is [fH 70.0KHz] and [fV 165.0Hz] and press ④.  Move the cell to EHT and press ④.  Make adjustment to the value shown at right by using ④ and ④.  Register by pressing ④ and return to the main menu by pressing ⑤.  Set the cell to the menu at left and press ④.  Select the ⑤ EHT DATA CALCULATION from the menu.  The computer will then display :  Calculate EHT data automatically · OK ?  Press ⑤ to return to menu of F8, press ⑥ to return to the main menu.  ( When selected above menu calculation is done automatically for HV5-1, HV5-2 and HV5-3 )	146.0V ±1V
G	H. CENTER	□ RGB off (Sync only)	G1 G2		Set the Brightness to MAX. Check that the input signal to the monitor is [fH 57.9KHz] and [fV 71.8Hz]. Make the adjustment as shown at right by turning the VR854 on the main PCB.	Back raster  Set the raster to the center with respect to the bezel.

	ITEM		Test Meter Test Point	JOB CODE	Input Signal	Operation	Adjusting Value
	Program Menu		Pattern	CODE	Olgital		
	H/V. SIZE, POSI	_		H1		Set the cell to the menu at left and press 🖭	
	and		Crosshatch	H2	Mode-1	Check that the input signal to the monitor is	
	V. PCC (1)					[fH 31.5KHz] and [fV 60.0Hz] and press 🖭	
	5) Adjust Factory			НЗ		Set the cell to following items, press 🖭 and	H : 300mm ±5
	preset					make the adjustment to the value shown at right by using  ☐ and ☐.	V : 225mm ±5
						① <u>H. SIZE</u>	H/V Posi :
						② <u>H. POSI</u>	Center
						③ <u>V. SIZE</u>	V. PCC :
						⊕ <u>V. POSI</u>	Best point
1						® <u>V. PCC</u>	
Н						© PARALLELOGRAM	
				114		⑦ TRAPEZOID	
				H4		After adjusting the above, return to menu of H2 by using 📵 and 🗹.	
				H5	Mode-2	Input signal [fH 60.0KHz] and [fV 75.0Hz], and	H : 300mm ±5
						repeat above procedure.	V : 225mm ±5
				H6		After adjustment, go to H7 by using ₤ and ₤.	
				H7	Mode-3	Input signal [fH 63.7KHz] and [fV 60.0Hz], and	H : 286mm ±5
						repeat above procedure.	V : 229mm ±5
				HE		After adjustment, return to the main menu by	
						using ₤ and №.	
-	H/V. SIZE, POSI			11		Set the cell to the menu at left and press <b></b>	
	and			12		Set the cell to the adjusting mode INTP [0] and	
	V. PCC (2)			12		press •.	
	3) Adjust VSR		Crosshatch	13		Check that the input signal to the monitor is	
	Setting					[fH 29.5KHz] and [fV 48.0Hz] and press  ☑.	_
				14		Set the cell to following items, press 🖭 and	H : 300mm ±5
						make the adjustment to the value shown at right by using ऒ and ऒ.	V : 225mm ±5
						① H. SIZE	H/V Posi :
						② H. POSI	Center
						③ <u>V. SIZE</u>	V. PCC :
						V. POSI	V. LIN:
						⑤ <u>V. PCC</u>	Best point
						© <u>V. LIN (S)</u>	
				15	4	After adjusting the above, return to menu of I2 by using <b>E</b> I.	
				l6		Input signal [fH 39.0KHz] and [fV 77.1Hz]	
				17		Select Adjusting mode <u>INTP [1]</u> , and repeat above procedure.	
				18		Input signal [fH 54.0KHz] and [fV 105.0Hz]	
				19		Select Adjusting mode INTP [2], and repeat	
					L	above procedure.	
				110		Input signal [fH 70.0KHz] and [fV 165.0Hz]	-
				111	- 1	Select Adjusting mode INTP [3], and repeat	
						above procedure.	
				ΙE		After adjustment, return to the main menu by	
					,	press [E].	

	ITEM		JOB CODE	Input Signal	Operation	Adjusting Value
L	Program Menu	☐ Pattern	CODE	Oigilai		
	CRT CUT-OFF	↑ TV Color     ↑ Analyzer II     □ RGB Off     (Sync only)	J1 J2	Mode-2	Set the Contrast to MAX, Brightness to Center and Color is 9300k using the OSD. Check that the input signal to the monitor is [fH 60.0KHz], [fV 75.0Hz] and turn off the RGB	·
	4) Adjust OTHER setting		J3 J4~ J11		signal. Set the cell to the menu at left and press  □. Make the adjustment R,G and B Low Light by using  □,  □ and Screen VR to CRT cut-off. Please refer to flow chart for this adjustment on page 30.	
		☐ 16 gradation grayscale	J12 J13		Change to the pattern at left. Adjust the screen VR so the 2nd level of gray appears slightly.	
J	BRIGHTNESS COLOR ADJUST	☐ White window (5cm×5cm at center)	J14 J15		Change to the pattern at left.  Move the cell to the following items and make the adjustment to the value shown at right by using  ■ and ■.  R. SUB CONT 9300K  G. SUB CONT 9300K  B. SUB CONT 9300K	Y=120 cd/m <sup>2</sup> x=0.281 ±0.15 y=0.311 ±0.15
			J16 J17		Set Contrast to MIN using the OSD.  Move the cell to the following items and make the adjustment to the value shown at right by using  and    R. LOW LIGHT 9300K G. LOW LIGHT 9300K B. LOW LIGHT 9300K Adjust two colors only out of above three as shown in    J11 on page 30.	x=0.281 ±0.15 y=0.311 ±0.15
	ABL	☐ White flat field (full window)	J18 J19		Change to the pattern at left.  Move the cell to <u>ABL 9300K</u> and make the adjustment to the value shown at right by using  □ and □.	Y=110 cd/m <sup>2</sup>
	<b>1.0V ADJUST</b> 8) Special ADJUST	☐ White window (5cm×5cm at center) 1.0V p-p video*	J20 J21 J22 J23		Press  to return to main menu.  Change to the pattern at left.*  Set the cell to the menu at left and press  Select the 1:VIDEO 1.0Vpp ADJUST from the menu.	
			J24 J25 J26 JE		Set Input Video Level 1.0V using the OSD of the monitor.  Make the adjustment to the value shown at right by using  and .  Press  to return to menu of J19, press  to return to the main menu.	Y=120 cd/m <sup>2</sup>



	ITEM		JOB CODE	Input Signal	Operation	Adjusting Value
	Program Menu	☐ Pattern	CODE	Sigilar		
K	FOCUS	☐ Character	K1 K2	MODE-2	Check that the input signal to the monitor is [fH 60.0KHz] and [fV 75.0Hz].  Make the corner sections of the screen optimum by turning D-FOCUS VR on the FBT.	
			K3		Make the the center section optimum by turning S-FOCUS VR on the FBT.	
			K4		Repeat K2 and K3 to make it optimum.	
	FINAL TUNE  8) Special ADJUST		L1 L2		Set the cell to the menu at left and press   Select the 9:FINAL TUNE from the menu.  (Step 1):Data tuning.  This messages will appear: <loading data="" eeprom="">end  <tuning data="" eeprom=""> end  <saving data="" eeprom="" to=""> end  <recall -="" data="" preset=""> wait a</recall></saving></tuning></loading>	
L			L3 L4 L5 L6 L7		moment (Step 2):Erase user preset data.  Erase All ' user preset data OK? > Press ☑ ④, go to L6. (Step 3):Calcalate color data.  COLOR 6550K data OK? >, press ☑ ④.  USER COLOR data OK? >, press ☑ ④.  ABL data OK? >, press ☑ ④.  finished . ( Hit return key ) Press ④, go to L8. (Step 4):Set brightness data and flag.  BRIGHT click data OK? >, press ☑ ④.	
			L10 LE		BRIGHT min./max. limiter automatically OK ? >, press ① ②. end <set flag=""> wait a moment end tune end . Hit return key! Press ②, return to menu of L2. Press ② to return to the main menu.</set>	
М	DATA SAVING 7) Save data to file		M1 M2		Set the cell to the menu at left and press   Key in the file name after [ ] :.  Use serial number as a file name  ( EXAMPLE : FF5110001 = "F5110001.DAT" )	

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#### 2. Purity adjustment

The CRT is an ITC assembly, however, here is the explanation for readjustment just in case.

If color shading is apparent, make the following adjustment.

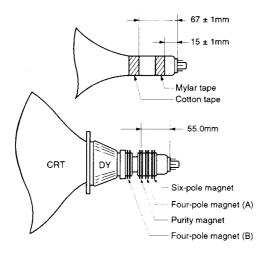
#### 2.1.

- (1) Verify that no unusual magnetic fields are near the Display unit (magnetic screwdrivers, table magnets, etc.). If possible, use a wooden workbench for this procedure.
- (2) Degauss the magnetism of chassis and CRT with external degaussing coil.
- (3) Adjust the purity magnet until each of the red, green and blue channels is free of color shading.

Make the following adjustment if color shading cannot be corrected by the above, or if the CRT or deflection yoke has been replaced.

#### 2.2.

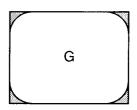
(1) Keep the convergence yoke and deflection yoke in the positions shown below.



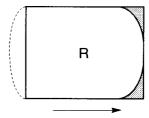
CY tightening torque:  $8 ^{+2}_{-1}$  kgf·cm DY tightening torque:  $18 \pm 2$  kgf·cm

- (2) Make sure that this adjustment is done later than 30 minutes after power on.
- (3) Degauss the magnetism of chassis and CRT with an external degaussing coil.
- (4) Verify that static convergence is roughly matched. If it is misaligned, adjust static convergence of Red color and Blue color with Four-pole magnet A. For this adjustment Four-pole magnet B which is with deflection yoke must be put together.

- (5) Remove the wedge from the deflection yoke, and pull the deflection yoke fully to the front.
- (6) Display green color solely with the signal generator. Adjust the purity magnet so that the center of the screen displays a pure green disk. Slide the deflection yoke rearward until the four corners shaded and check its area's uniformity.



- (7) After the adjustment of step 5, readjust the static convergence if some gap was found.
  - Static convergence alignment for this step is to be performed with Four-pole magnet A and Six-pole magnet.
- (8) Display red disk. Adjust the purity magnets so as that red disk is as the center of the screen simultaneously. If red is shifted, move its position in the opposite direction.



- (9) Display Green again.
  - Slide the deflection yoke rearward until the screen appears green on the whole, and fasten it there.
- (10) Confirm purity in each direction by rotating the set to direction of East, West, South, and North after degauss by external degaussing coil.
- (11) If magnetism remains even after the adjustment, use the compensation magnet to obtain purity.

#### The final confirmation method for purity

In the natural magnetic field, rotate the monitor in the direction of East, West, South and North.

Earth's magnetic field may cause magnetism on the monitor. Confirm that the automatic degaussing circuit built in the monitor can erase the amount of magnetism which was introduced with above rotation.

#### 3. Convergence adjustment

The CRT is an ITC assembly, however, here is the explanation for readjustment just in case.

- (1) Make sure that this adjustment is done later than 30 minutes after power on. Check general ability coarse adjustment and purity adjustment finished.
- (2) Degauss the magnetism of chassis and CRT with degaussing coil. (CRT board also)
- (3) Apply mixed crosshatch signals of red and blue from the signal generator. Nudge the deflection yoke to equal its inclination up and down, right and left with a temporary wedge between CRT and the top of the yoke.
- (4) Match the red and blue images at the center of the screen by rotating the Four-pole magnet A (See STEP-1 in figure for examples). For this adjustment Four-pole magnet A should be put together.
- (5) Apply mixed crosshatch signal of red, blue and green from the signal generator.
- (6) Match the red, green and blue images at the center of the screen by rotating the Six-pole magnet. (See STEP-2 in figure for examples)
- (7) If lines are twisted either lefthand or righthand (See the STEP-3 in figure for examples) perform the following:
  - a. Use Four-pole magnet B to shift convergence of horizontal lines by 5 to 6 mm at the center of the screen. (For twisted lefthand lines, shift blue line downward and red line upward. For twisted righthand lines, shift red line downward and blue line upward. Do not shift convergence of vertical lines.)
  - b. Then realign convergence with Four-pole magnet A.
- (8) Loosen the deflection yoke fastening screw and gently nudge the yoke up and down to achieve the best overall convergence on the edges of the screen (See STEP-4 in figure for examples).
  - Insert wedge at the top of the deflection yoke so that the convergence will not deviate due to an unsteady deflection yoke.
- (9) Gently nudge the yoke from side to side to achieve the best overall convergence on the edges of the screen (See STEP-5 in figure for examples). Insert wedges at the left side and right side of the deflection yoke so that the convergence will not deviate due to an unsteady deflection yoke. (Do not apply silicon adhesive to the wedges to prevent
- (10) Check that the image is horizontal.

  If needed, rotate the deflection yoke.

them from slipping out).

- (11)Recheck the purity adjustment. If purity was adversely affected repeat the purity adjustment, then recheck convergence when finished.
- (12)Retighten the deflection yoke fastening screw. Do not overtighten the screw, as this can damage the CRT.

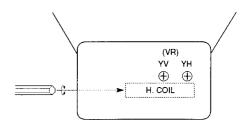
Tightening torque: 18 ±2 kgf·cm

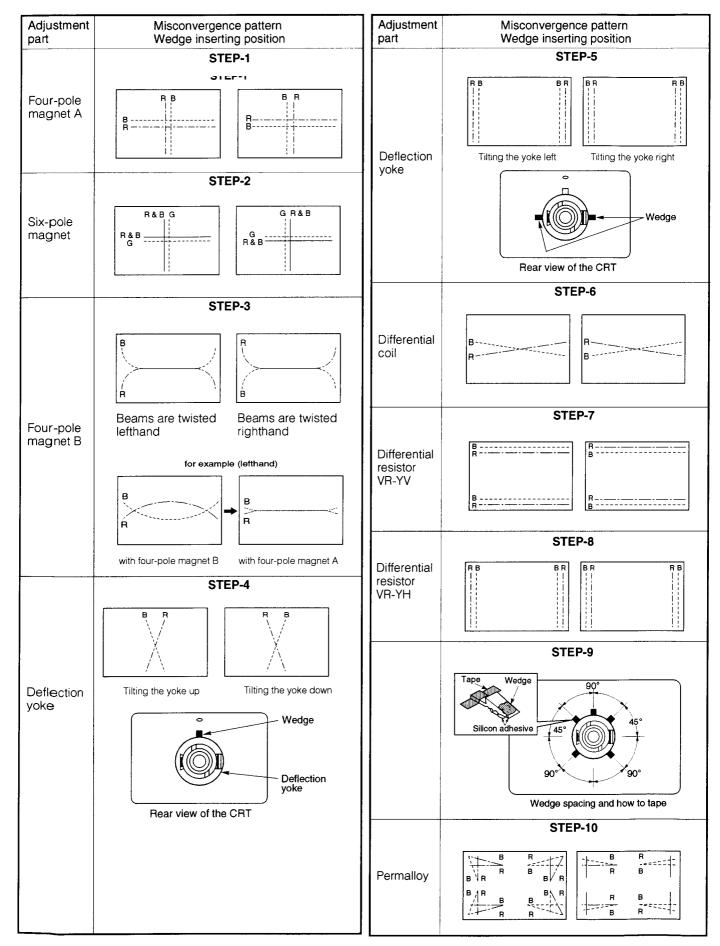
- (13) Align the horizontal line convergence at the center of the screen with the Differential coil (See STEP-6 in figure for examples).
- (14) Align the horizontal line convergence at the corner and of the screen with the Differential resistor VR-YV. (See STEP-7 in figure for examples).
- (15) Align the center vertical line convergence at the corner of the screen with the Vertical Isotropic Astigmatism resistor VR-YH (See STEP-8 in figure for examples).
- (16) Recheck convergence at the center of the screen. If needed, realign with the Four-pole magnet A and the Six-pole magnet.
- (17) Insert wedges as shown in STEP-9 of figure (at the top, bottom, and right side of the deflection yoke). Secure them with silicon adhesive and polyester tape. Remove any temporary wedges while keeping convergence aligned.
- (18) If the convergence on the fringe areas in still not acceptable, place one or more Permalloys around the funnel to achieve the best effect. Then press these Permalloys onto the funnel. Verify convergence around all edges of the screen. (See STEP-10 in figure for examples).

#### NOTE

In the above step, do not place the Permalloys closer than 20 mm from the HV anode cap. Do not tape them over any paper labels or secure them with silicon adhesive.

- (21) After completion of adjustment, apply locking paint to the movable portions of the deflection and convergence yokes to secure them.
- (22) Make adjustment so that the value of white window pattern from the signal generator is below that under the condition of 100 cd/m² brightness at the standard condition.





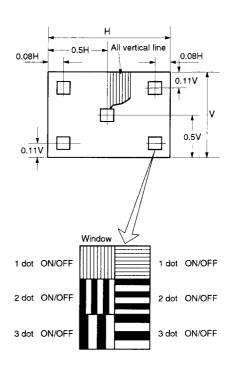
# **CHECK ITEM**

These items are intended for a recheck after adjustment and for a check of the following function operations:

- 1. Resolution check
- 2. Brightness variation check
- 3. Gradation check
- 4. Brightness check
- 5. Deflection linearity check
- 6. Distortion check
- 7. Image stability check
- 8. Blinking image check
- 9. Circuit operation check
- 10. Specific function check
- 11. Power save function check

## 1. Resolution Check

(1) Apply resolution check pattern.



- (2) Check with the normal signal and inverted signal. Check to be sure that display color between dots is uniform and that there are no color difference and spotty display color.
- (3) Check the entire image quality including resolution.

# 2. Brightness Variation Check

- (1) Cause the white full dot pattern to be displayed with the standard condition.
- (2) Set the contrast to a maximum. Set the brightness to the center.
- (3) Make sure that a brightness difference between the center and periphery is <70 % with the horizontal magnetic field in the condition of  $\pm 30~\mu T$ .

# 3. Gradation Check

- (1) Cause the 16 grayscale to be displayed with the standard condition. (White gradation waves.)
- (2) Set the contrast to a maximum and the brightness to the center.
- (3) At this time, the 1st gradation (black level) cannot be seen and the 2nd gradation must be barely lit.
- (4) With the brightness set to the center, vary the contrast from the maximum point the gradation tracking must be good at that time.

Note: If tint (particularly the gray, which is a middle color) is different, make adjustment of the white balance once again.

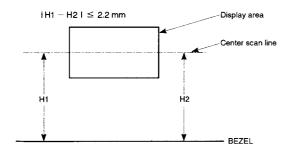
(5) With the contrast set to a maximum, vary the brightness from the maximum point to the minimum point and check to be sure that the brightness of the low gradation portion changes.

Note: Check both the color select 9300K and 6550K.

# 4. Brightness Check

- (1) Cause the white full-flat field pattern to be displayed with the standard condition.
- (2) Make sure that the brightness value is < 26 cd/m² when the contrast is set to a minimum and the brightness to the center.

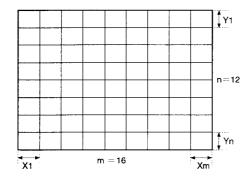
# 5. Rotation Check



# 6. Linearity Check

Horizontal linearity = 
$$\frac{X \text{ max.} - X \text{ min.}}{X \text{ max.} + Y \text{min.}} \times 100\% \le 7\%$$

Vertical linearity = 
$$\frac{\text{Ymax.} - \text{Ymin.}}{\text{Ymax.} + \text{Ymin.}} \times 100\% \le 6\%$$



# <Conditions>

Display image ---- crosshatch pattern

Maximum and minimum values should not be adjacent to each other.

X max. is maximum value among X1 ~ Xm.

X min. is minimum value among  $X1 \sim Xm$ .

Y max. is maximum value among Y1 ~ Yn.

Y min. is minimum value among Y1 ~ Yn.

## 7. Distortion Check

(1) Apply the signal of the following mode and supply the green crosshatch pattern.

Mode-1

Mode-2

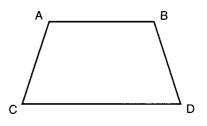
Mode-3

(2) Make sure that each value comes within the value indicated above.

# • Distortion TRAPE ZOID

$$\frac{AC - BD}{AC + BD} \times 100 \le 1.0 \%$$

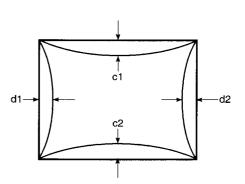
$$\frac{AB - CD}{AB + CD}$$
 x 100 \le 1.0 %



# • Pincushion and barrel

|C1|,  $|C2| \le 2.5 \text{ mm}$ 

 $| d1|, | d2| \le 2.5 \, \text{mm}$ 

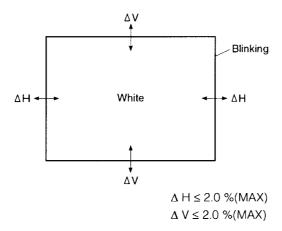


# 8. Image Stability Check

- (1) Check to be sure that the size variations are <1.5 % when the white full dot pattern of standard condition and the AC voltage is changed to  $90 \sim 264$  V.
- (2) Make sure that the size variations are <1.5 % when contrast is changed to a minimum from maximum at  $26 \sim 110 \text{ cd/m}^2$ .

## 9. Blinking Image Check

(1) Apply blinking pattern signal. (100%)



(2) Check the image stability at standard condition.

Check if image changes due to blinking meets the standards above using the microscope.

# 10. Circuit Operation Check

- (1) Check the protection operation at fH not covered in the specifications.
- (2) Apply fH = 28 KHz and 71KHz signal and check to be sure that sync flows.

# 11. Specific Function Check

- (1) Create the crosshatch pattern using the standard condition signal of the preset timing.
- (2) Vary the vertical and the horizontal sizes and check to be sure that the horizontal size and horizontal position variations meet the values given below.

Vertical size → +/- 20 mm or more

Vertical position → up and down
5 mm or more

Horizontal size → MIN. < 280 mm
MAX. > full scan

Horizontal position → left 40 mm or more

Horizontal position → right 40 mm or more

# 12. Power Save Function Check

The power consumption must meet the specifications when the horizontal/vertical sync signals are changed as shown below.

H. SYNC	OFF	ON	OFF
V. SYNC	ON	OFF	OFF
SPEC	< 30W	< 30W	< 8W

# TECHNICAL INFORMATION FOR DDC

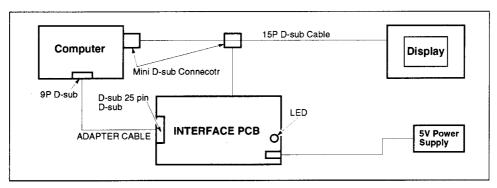
- It must be noted that this monitors is designed to be applicable to DDC1 communication the following points are different from ordinary monitors.
  - 1. Use the signal cable, the which is furnished as an accessory (applicable to DDC1) only.
  - 2. When replacing a PCB on which ROM for DDC1 is mounted, data writing is required.

Proprietary interfacing and software is required for reading or writing the data, please contact 1-800-PANASYS for further information.

In addition to the above, a computer applicable to WINDOWS and a 5V power supply unit are required.

- DDC1 Data Read/write System
  - 1. Communication jig
    - (1) The composition of Communication jig
      - ① Interface PCB.
- ② Adapter cable (D-SUB 25P → 9P) ③ 15P D-SUB cable

(2) Connection diagram for communication jig.



- (3) Procedure to turn on the power:
  - ① Make connections as shown above.
  - 2 Turn on the computer.
  - ③ Turn on the power supply of communication jig.
  - 4 Turn on the power supply of the MONITOR.

(Note) If the above-mentioned operation is normal, LED of the communication jig turns green after step (4).

If this LED is red, repeat the steps (3) and (4).

(4) Confirmation of DDC mode

LED is mounted on the communication jig. According to its color, the DDC mode can be discriminated.

- When LED is green.

DDC1 mode.

- When LED is orange.

DDC2B mode.

- When LED is red.

Transmission error.

- When LED is not lit.

Obsolete.

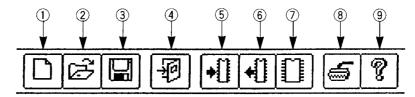
- 2. Preliminary arrangements for using DDC data read/write software
  - (1) Copy DDC WRITE. EXE from floppy disk to hard disk drive (Name: \PanaTool Directory).
  - (2) Register DDC data read/write software (DDCWRITE.EXE) in the Icon.
    - ① Click the menu bar "lcon" of the program manager.
    - ② Select "register and group create" from the pull down menu.
    - ③ Select "group create."
    - 4 Name the group PanaTool and register the group.
    - (5) Repeat (1) and (2) again and select "Icon registration."
    - (6) Enter "DDC1/2B" for [Title] and "Hard disk drive name: \PanaTool\DDCWRITE. EXE" for [Command line]. Then select [OK]
- 3. How to use DDC data read/write software.
  - (1) Start of DDC data read/write software.

Double-click the "DDC1/2B" Icon in the PanaTool group.

(2) Meaning of a button displayed.

The tool bar indicates the nine icons shown below.

These icons are explained, from left to right:



- Icon ①: Initialization of screen display contents.
- Icon ②: File is opened and displayed on the screen.
- Icon ③: Data are stored in a file.
- Icon (4): Finish the DDC data read/write software.
- Icon (5): Data displayed on the screen are written in EEPROM.
- Icon ⑥: Contents of EEPROM are displayed on the screen.
- Icon ①: Contents of EEPROM are compared with the data displayed on the screen.
- Icon (8): Communication port setting.
  - Contents of setting: PORT → Using Communication port No.
  - Baud rate  $\rightarrow$  9600, Data  $\rightarrow$  8 bits, Parity  $\rightarrow$  Nil, Stop  $\rightarrow$  1 bits
- Icon (9): Version information display.
- (3) Using the tool bar explained in (2) above, write data in EEPROM and make operations of reading, etc. A pop-up window may be displayed on the way. In such a case, select a proper one according to the message.

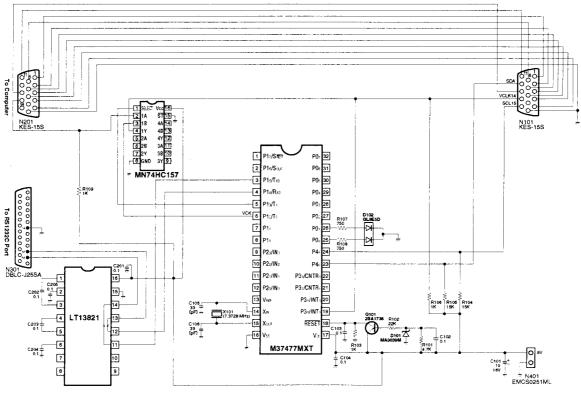
(Example 1) EEPROM data are displayed on the screen.

- ① Click the loon (6th from the left) in the tool bar, with the arrow pointing from the memory chip.
- ② Decided whether reading is started in DDC1 mode or DDC2B mode.
- ③ Select START.

(Example 2) Data displayed on the screen are written in EEPROM.

- ① Click the icon (5th from the left) in the tool bar, with the arrow pointing toward in the memory chip.
- ② Select START.

# SCHEMATIC DIAGRAM FOR INTERFACE

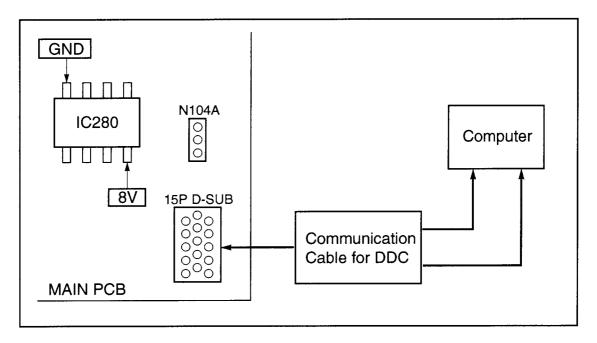


# Data Management

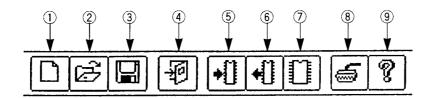
If the main PCB has been replaced, the data of the replaced PCB must be rewritten. The data rewriting procedures are as follows:

- (1) Connect the communication cable for DDC to the defective PCB (15P D-SUB) and PC (9P D-SUB).
- (2) Start the DDC control program.
- (3) Connect the 5-V power line to IC280 (8) and GND to IC280 (4) of the defective PCB respectively.
- (4) Click on ICON (6) in the window to save the data from the monitor.
- (5) Click on ICON (3) to enter file names and save them on thew disk.
- (6) Disconnect the 5-V power line and D-SUB connector from the defective PCB.
- (7) Switch on the monitor whose main PCB has been replaced and connect the D-SUB connector back.
- (8) Click on ICON (2) to enter the same file names as in step (4).
- (9) Click on ICON (5) to load the data into the monitor.
- (10) Click on ICON (6) and confirm that the data has been rewritten.

# **Connection Diagram**



# **ICON**

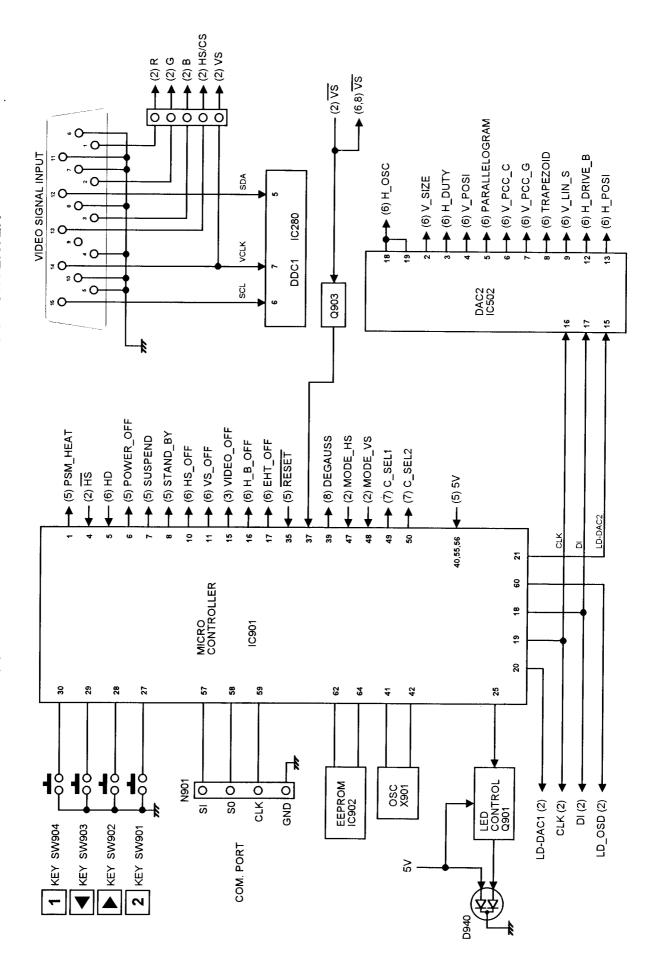


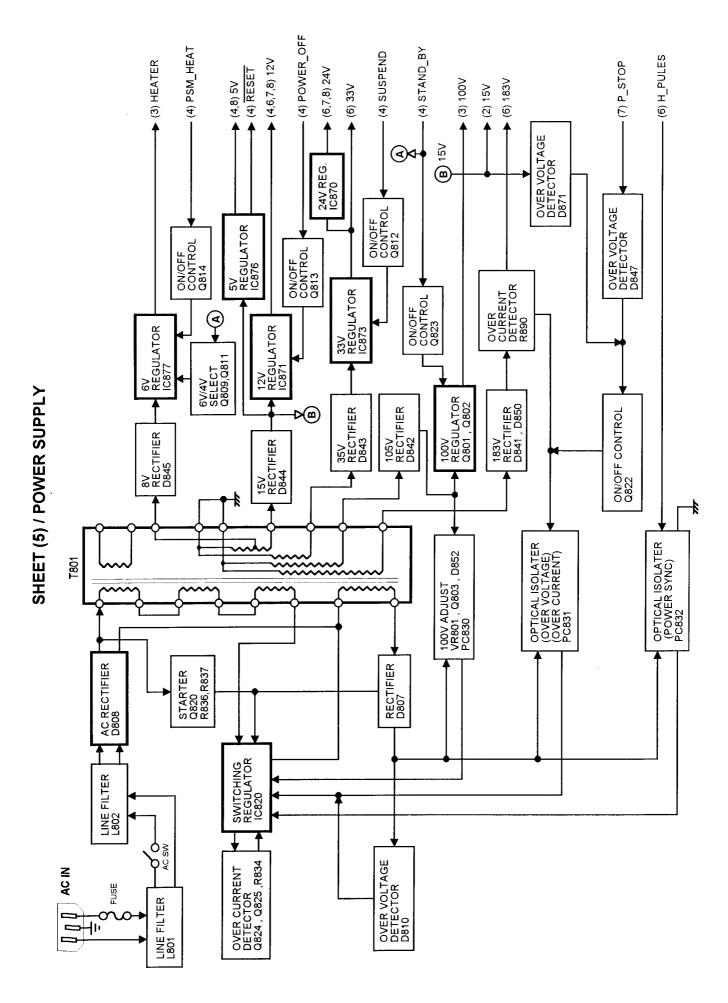
(3) LD\_DAC\_1 (3) OSD\_SW (3) OSD\_FB (3) OSD\_G (3) OSD\_R (3) OSD\_B ▼ (3) CLAMP (3) FBKG · (4,6) VS · (4,6) HS (3) CLK (3)5V(3) Q252 G-0.S.D. CONTROL Q1102, D1108 R - 0.S.D. CONTROL Q1002, D1008 B - O.S.D. CONTROL Q1202, D1208 ANALOG SWITCH CONTROL Q1303 SS CONTROL Q250, Q251 SHEET (2) / SYNC SEPARATE / O.S.D. GENERTOR OSD-G OSD-B OSD-R 5 5 4 5V REG. D207 , R219 4 5 12 SYNC SEPARATOR MODE DETECTOR CLAMP PULSE GENERATOR O.S.D. PATTERN GENERATOR 16 10201 1C1305 15V — 12V REG. 8 6 HS/CS (IN) VS (IN) ტ Q1302 ▼ Q1301 (3) R (3) G (3) B MODE\_VS (4) ▲ LD\_DAC\_1 (4) — MODE\_HS (4) ▲ G (D-SUB) -H\_PULES (7) HS\_CS (D-SUB) CLK (4) LD\_OSD (4) V\_PULES (6) R (D-SUB) B (D-SUB) VS (D-SUB)

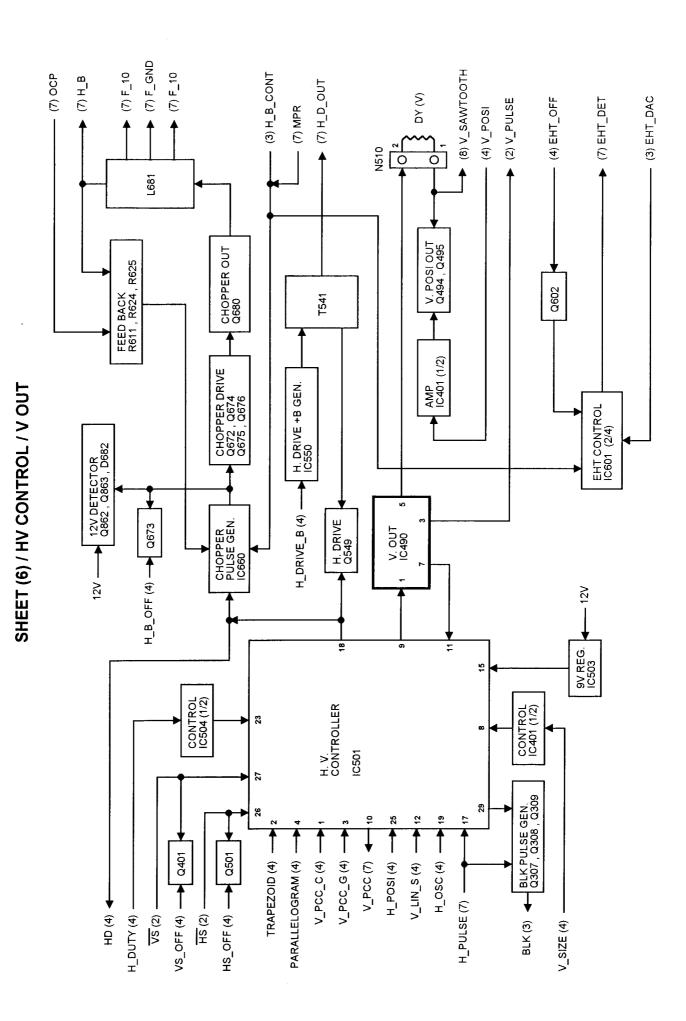
SHEET (3) / VIDEO OUT

- 40 -

SHEET (4) / MICRO CONTROLLER / DIGITAL ANALOG CONVERTER







(6) EHT\_DET

VPCC / H SIZE OUT Q572, Q573, Q574

Q568

VPCC / H SIZE CONTROL IC601 (2/4)

V\_PCC (6) H\_SIZE (3) MPR (6) **←** 

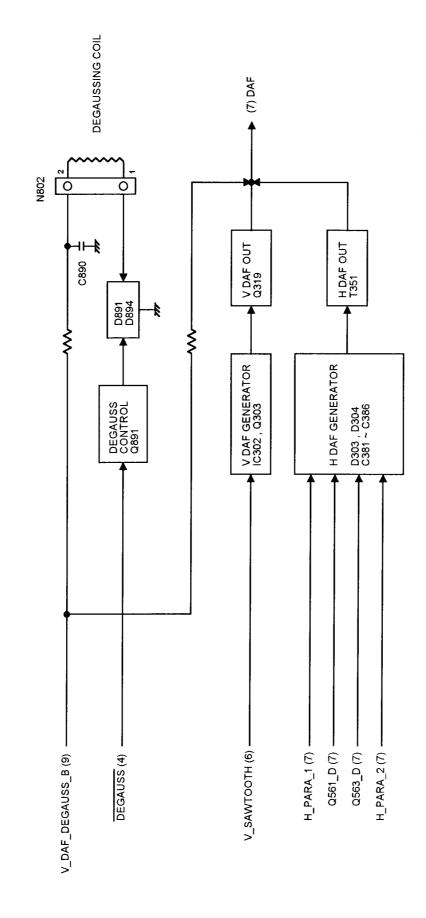
Q569

(3) G2

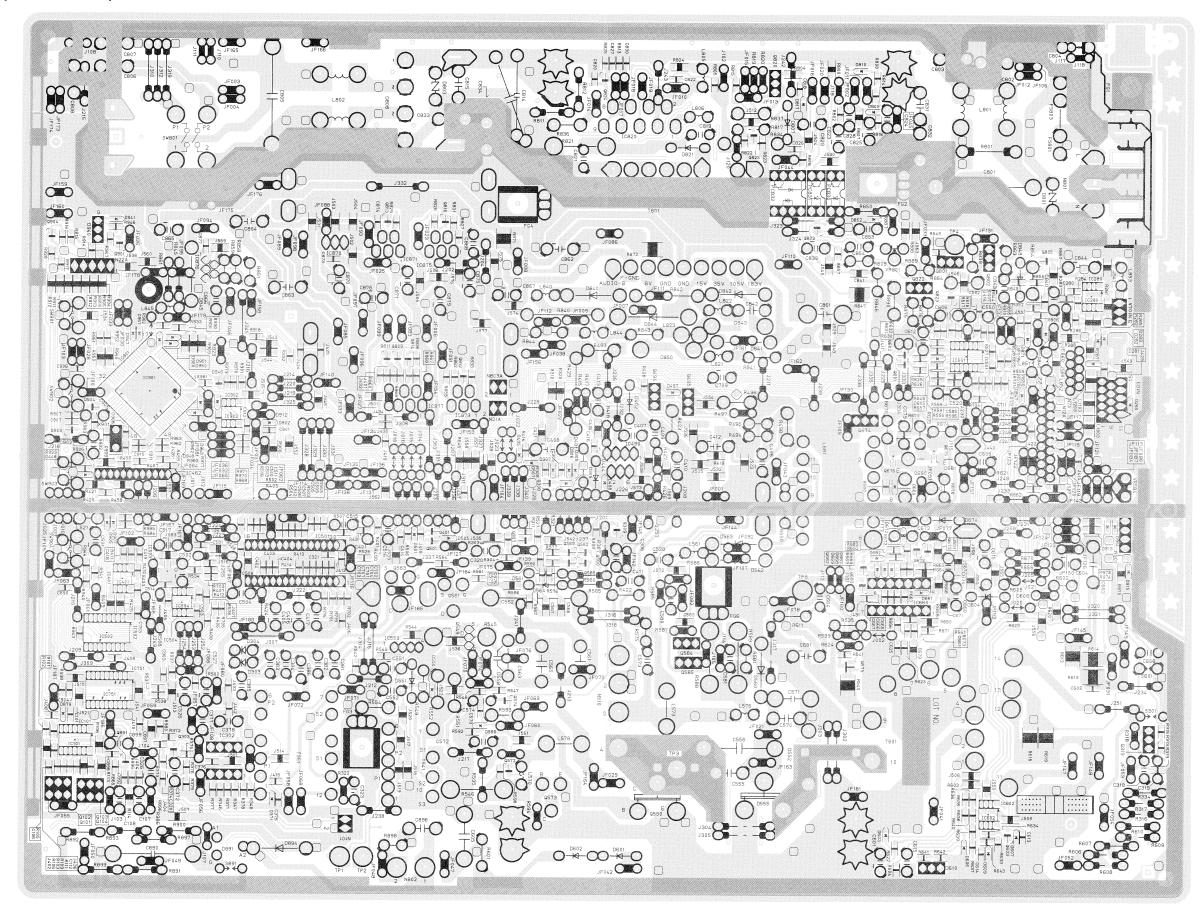
(3) ABL

- 44 -

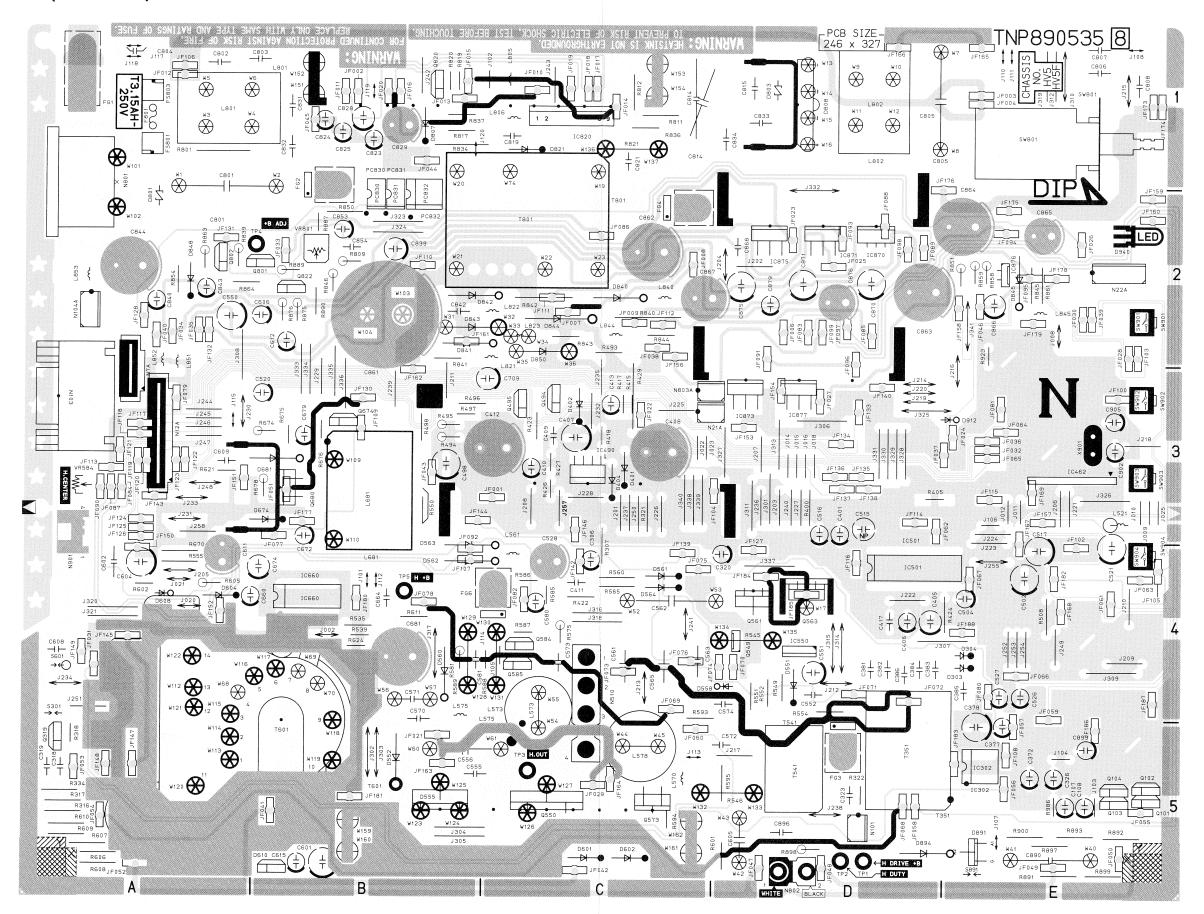
# SHEET (8) / DAF OUT / DEGAUSS



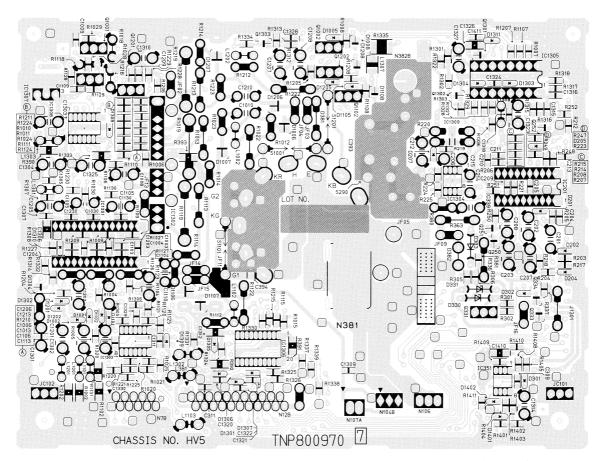
# MAIN BOARD (Solder side)



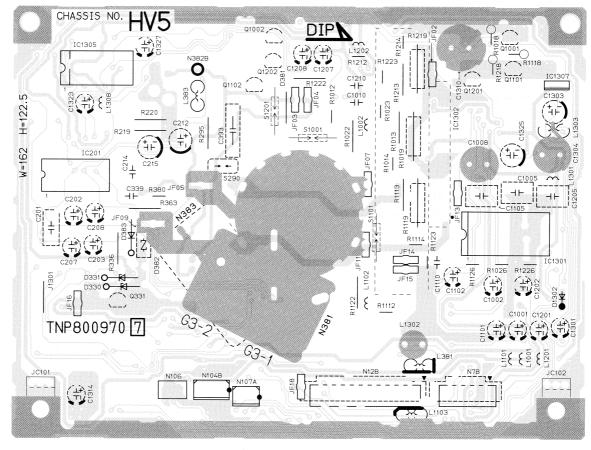
# MAIN BOARD (Parts side)



# **VIDEO BOARD (Solder side)**



# VIDEO BOARD (Parts side)



# **SCHEMATIC DIAGRAM**

# - IMPORTANT SAFETY NOTICE -

The component identified by shading or international symbol  $\Delta$  on the following schematic diagrams incorporate special features important for protection from X-Radiation, fire and electrical shock hazards. When servicing it is essential that only manufacturer's specified parts be used for those critical components.

# NOTES:

## 1. RESISTOR

All resistors are carbon 1/4W resistor, unless otherwise noted by the following marks. Unit of resistance is ohm  $(\Omega)$ , (K = 1,000, M = 1,000,000)

 $\bigcirc$ : Non Flammable  $\triangle$ : Solid

: Wire Wound :: Thermistor

: Flame Proof Rectangular

# 2. CAPACITOR

All capacitors are ceramic 50V capacitor, unless otherwise noted by the following marks. Unit of capacitance is  $\mu$ F, unless otherwise noted.

±∎- : Electrolytic (M) : Polyester

Tantalum
 Bipolar
 Polystyrene
 Metalized Polyester
 Polypropylene
 Mica

 $\Delta$ : Temperature Compensation C: Ceramic

Ceramic (SL)

## 3. COIL

Unit of inductance is  $\mu H$ , unless otherwise noted

# 4. VOLTAGE MEASUREMENT

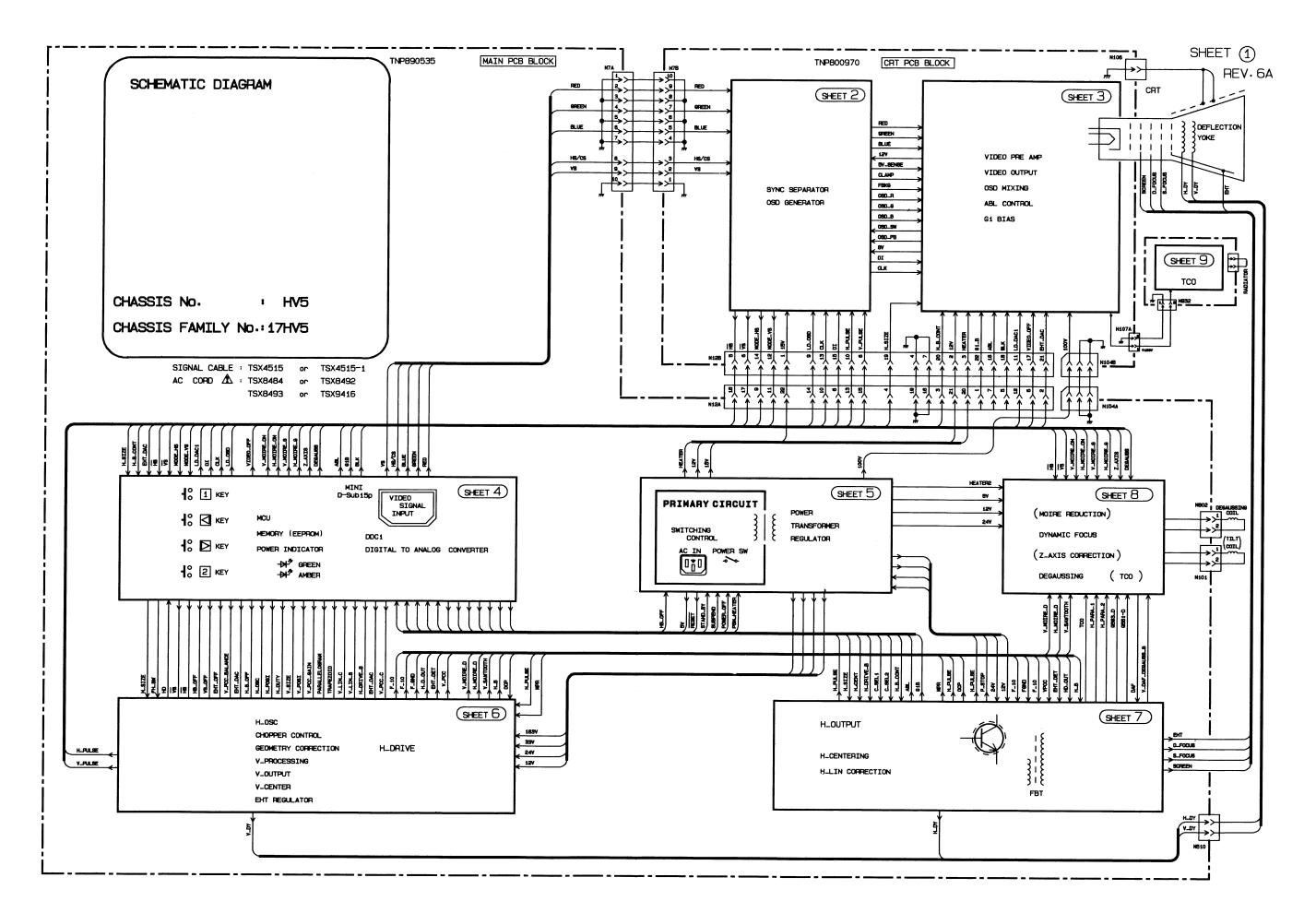
Voltage is measured by a digital meter receiving normal signal.

5. This schematic diagram is the letest at the time of printing and is subject to change without notice.

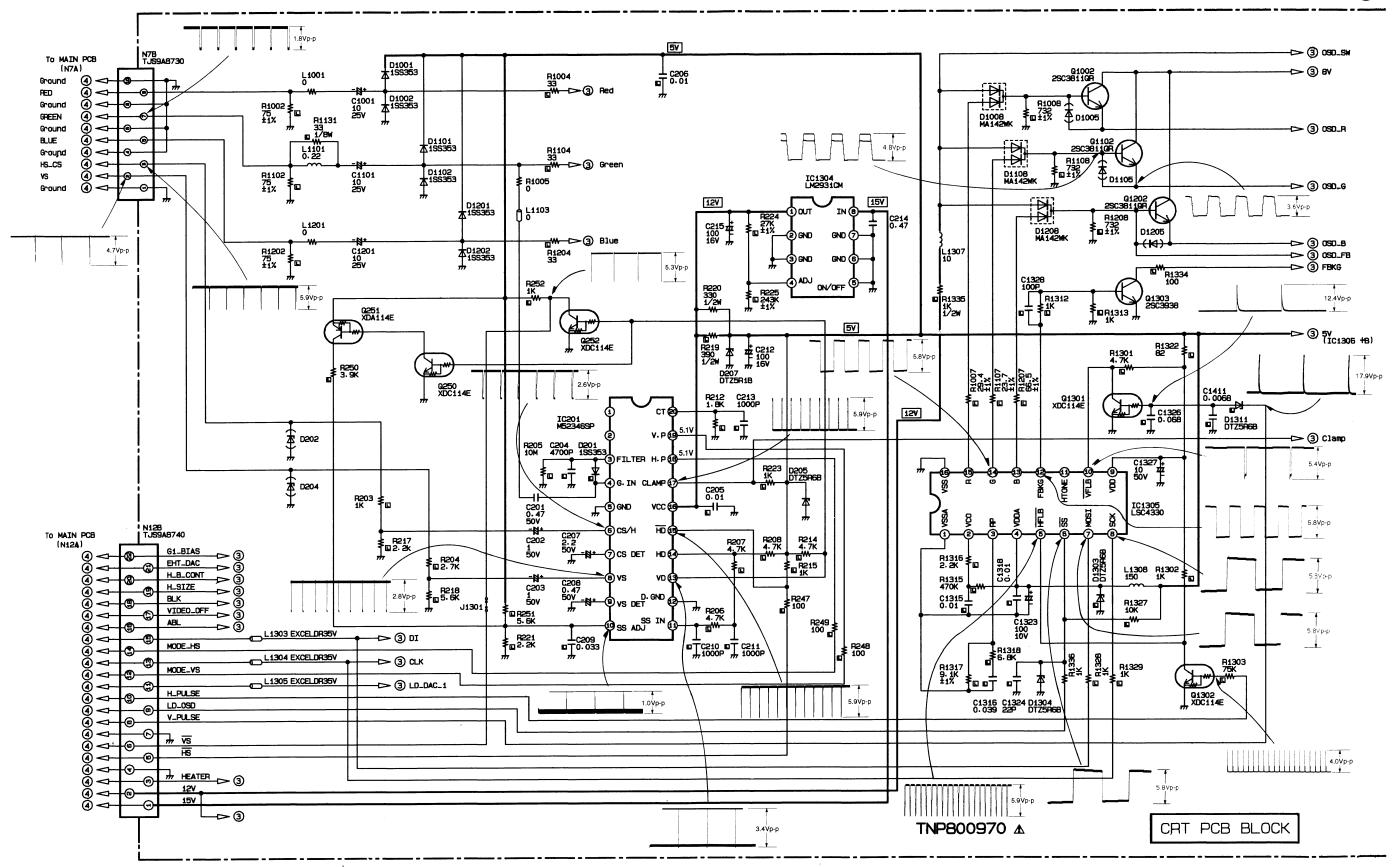
# **SERVICE NOTES:**

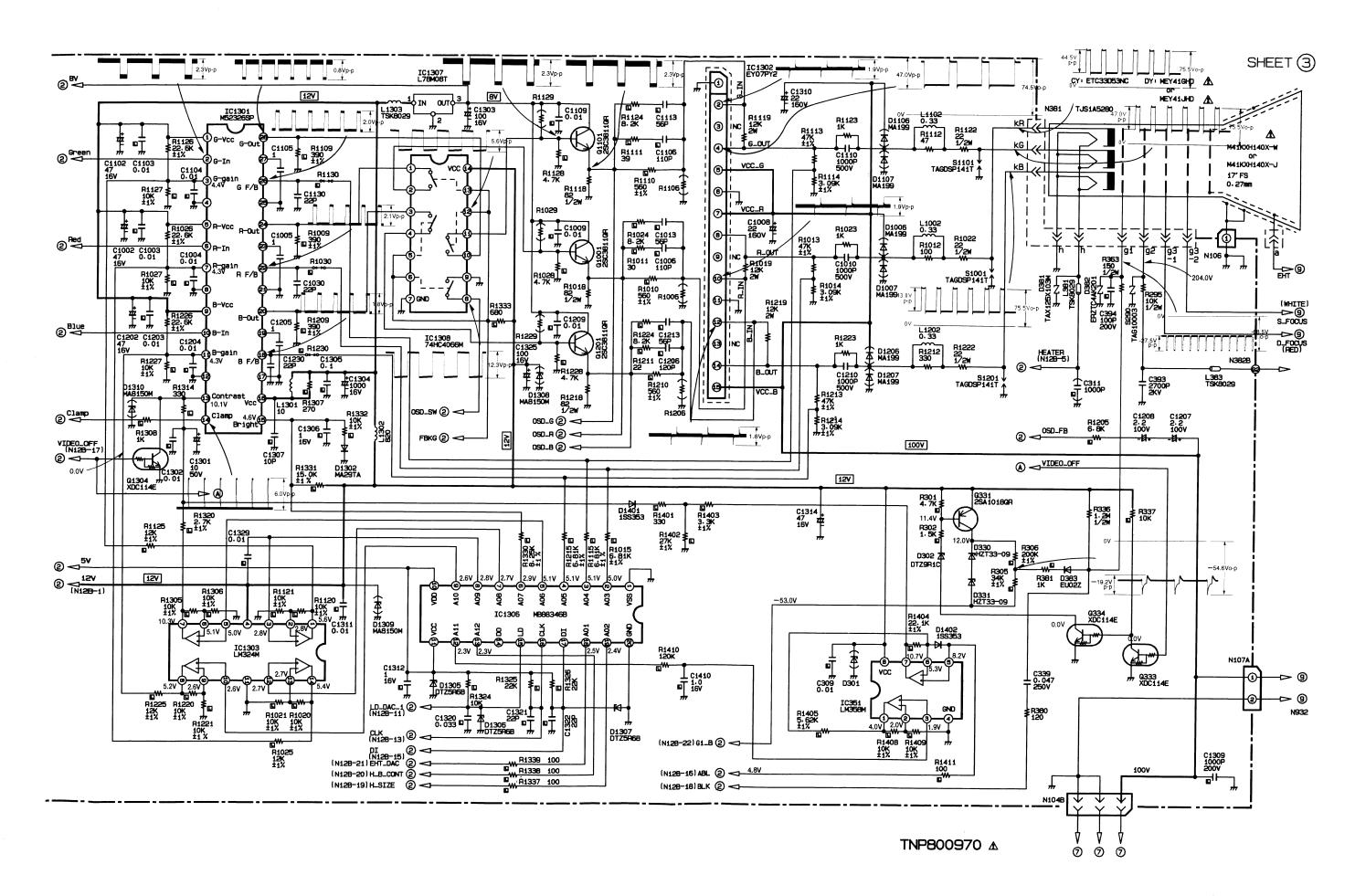
This model has a section that does not share a common ground with the power supply section. The different sections are referred to as the HOT section and the COLD section in the precautions below.

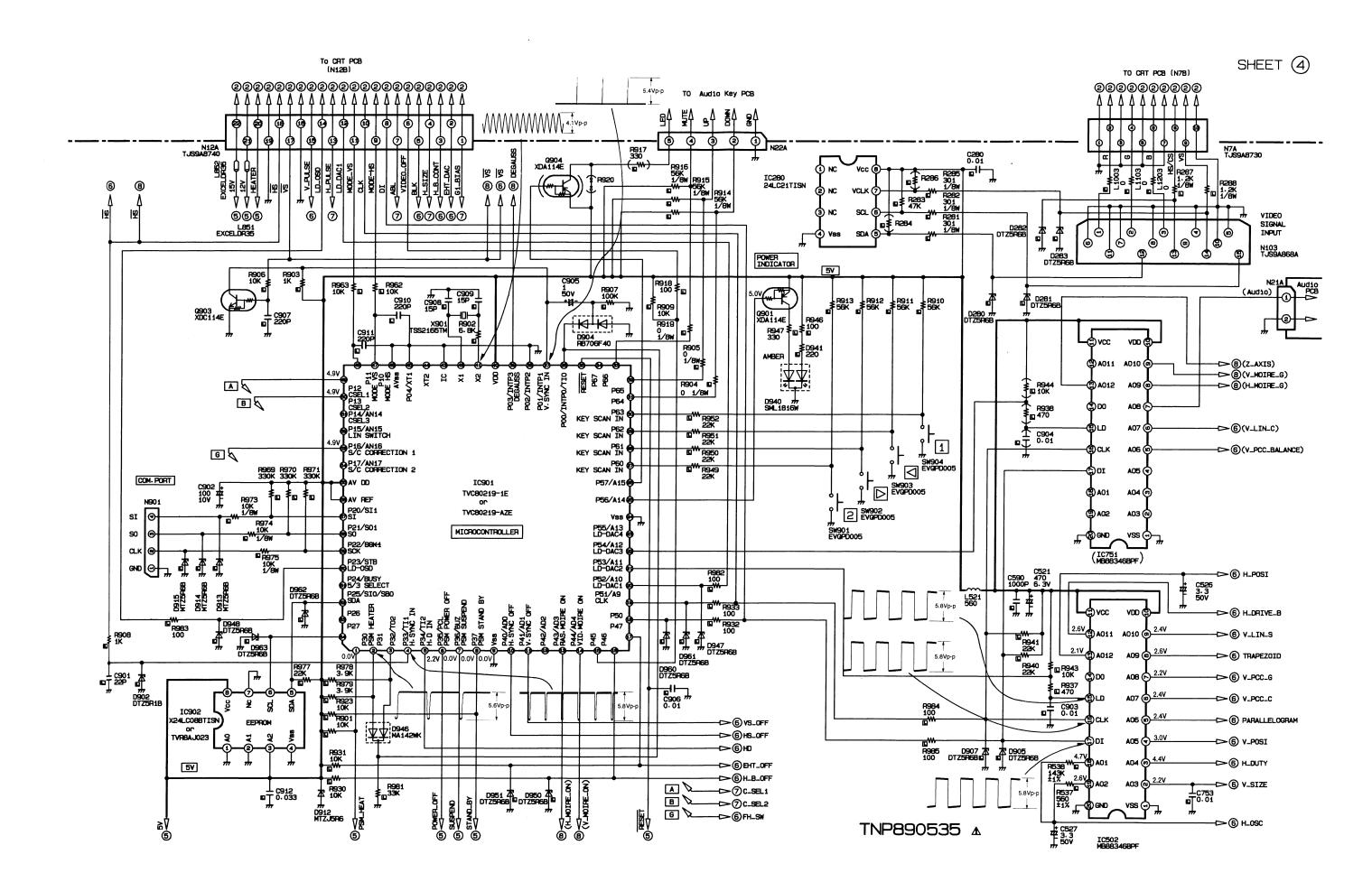
- 1. Do not touch the HOT section and the COLD section at the same time. You may receive an electric shock.
- 2. Do not short the HOT section to the COLD section. This could blow the fuse or damage parts.
- 3. Never measure the HOT section and the COLD section at the same time when using tools such as oscilloscopes or multimeters.
- 4. Always unplug the unit before beginning any operation such as removing the chassis.

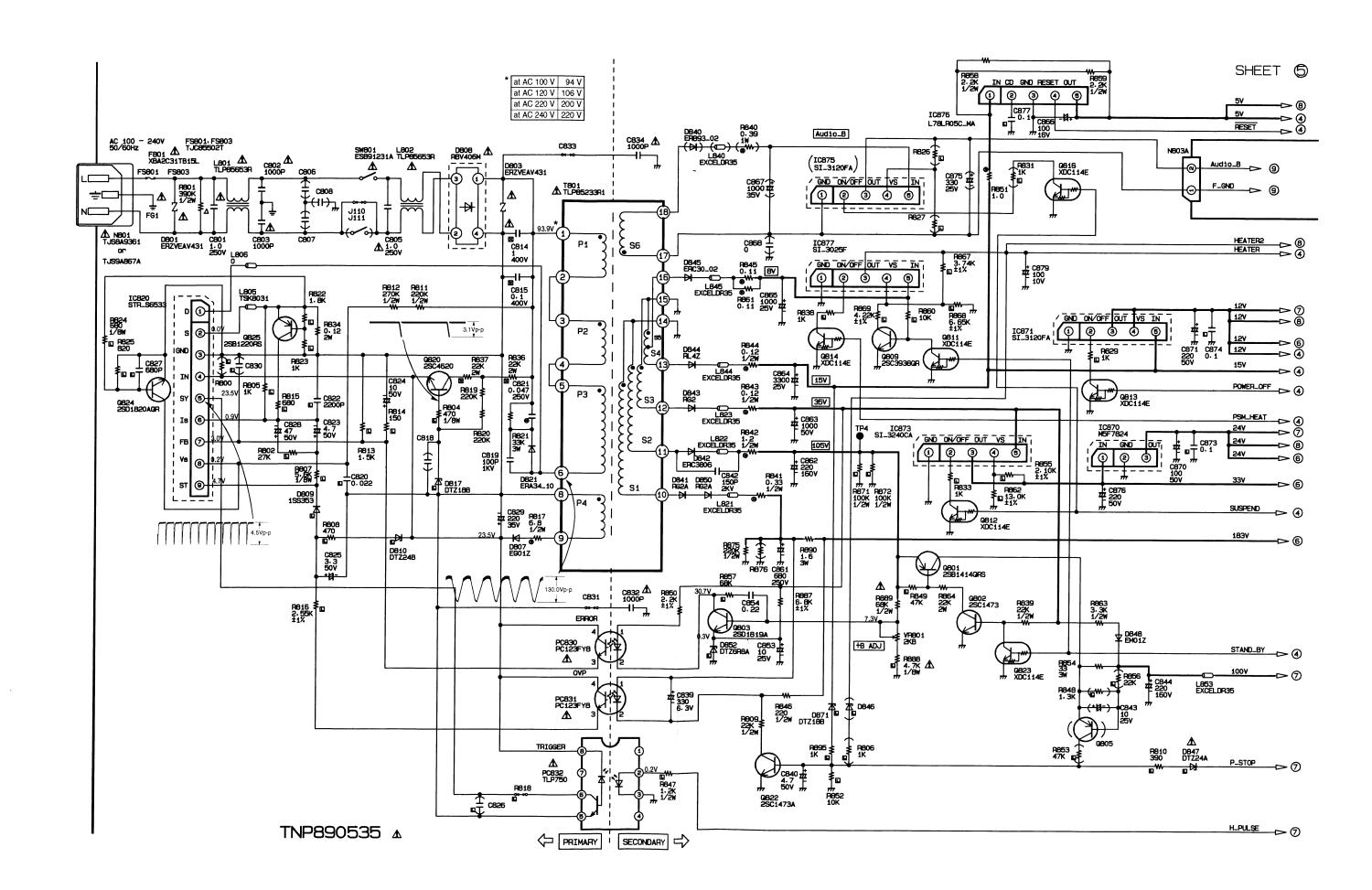


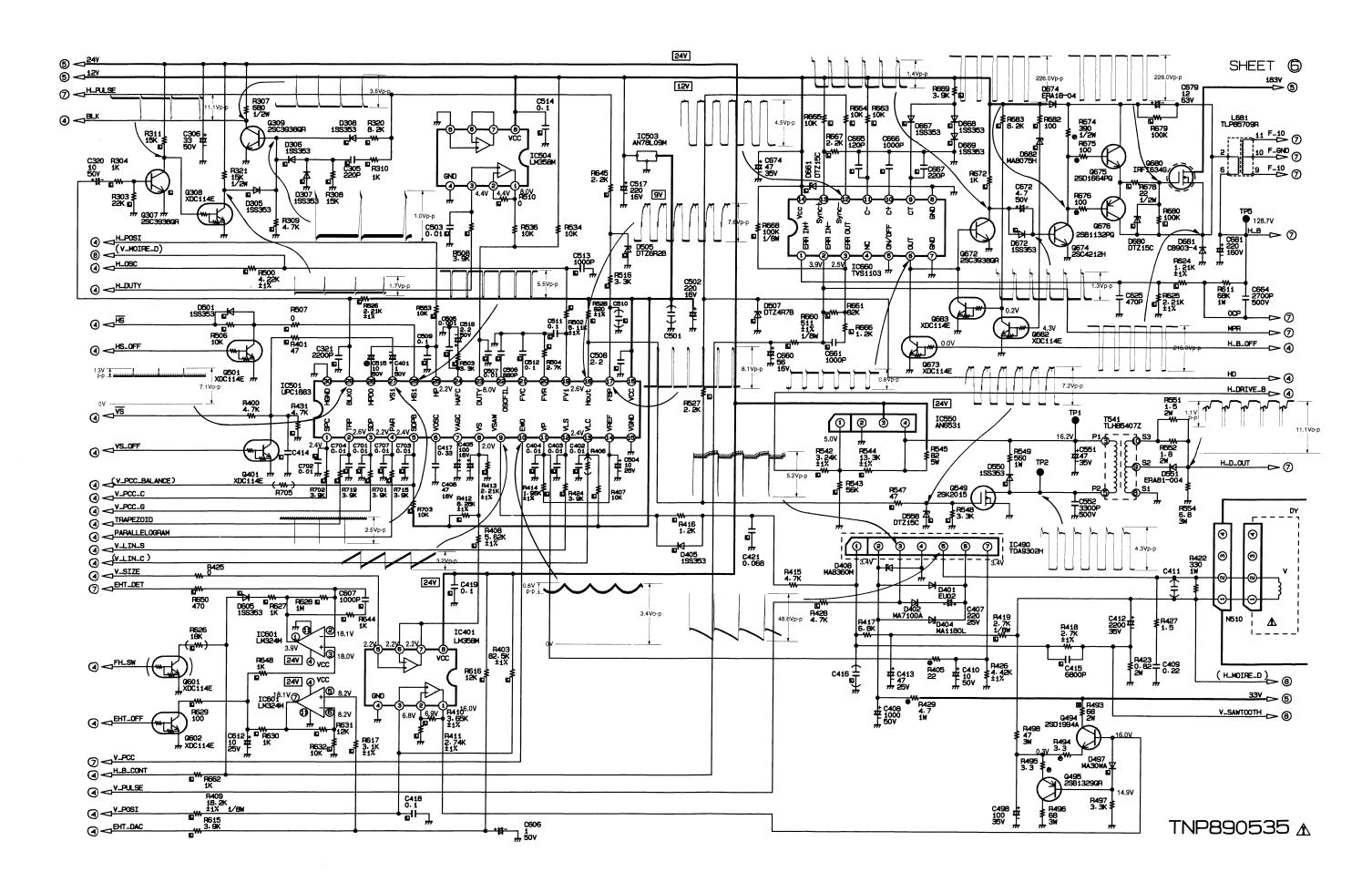
# SHEET (2)

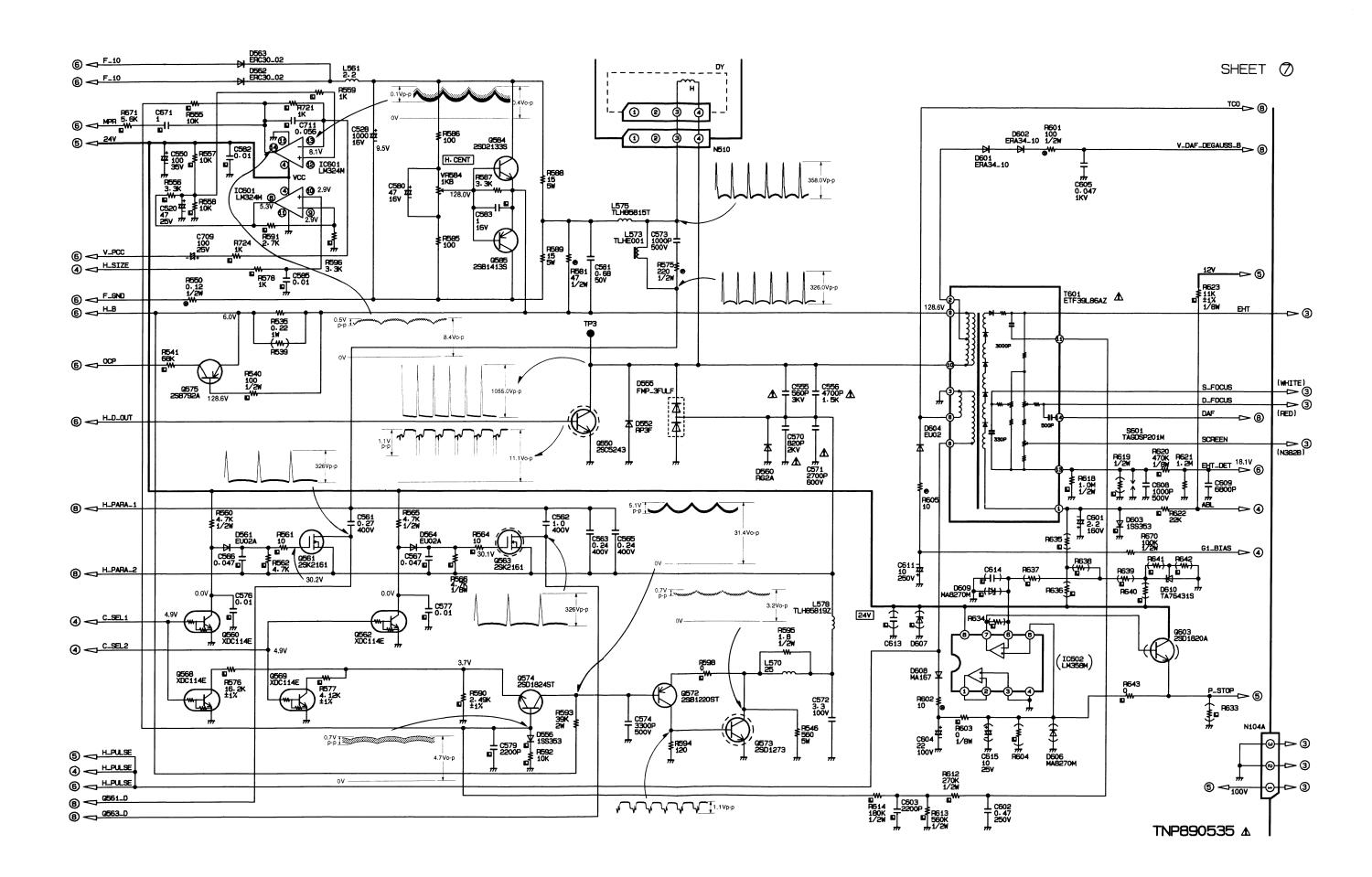


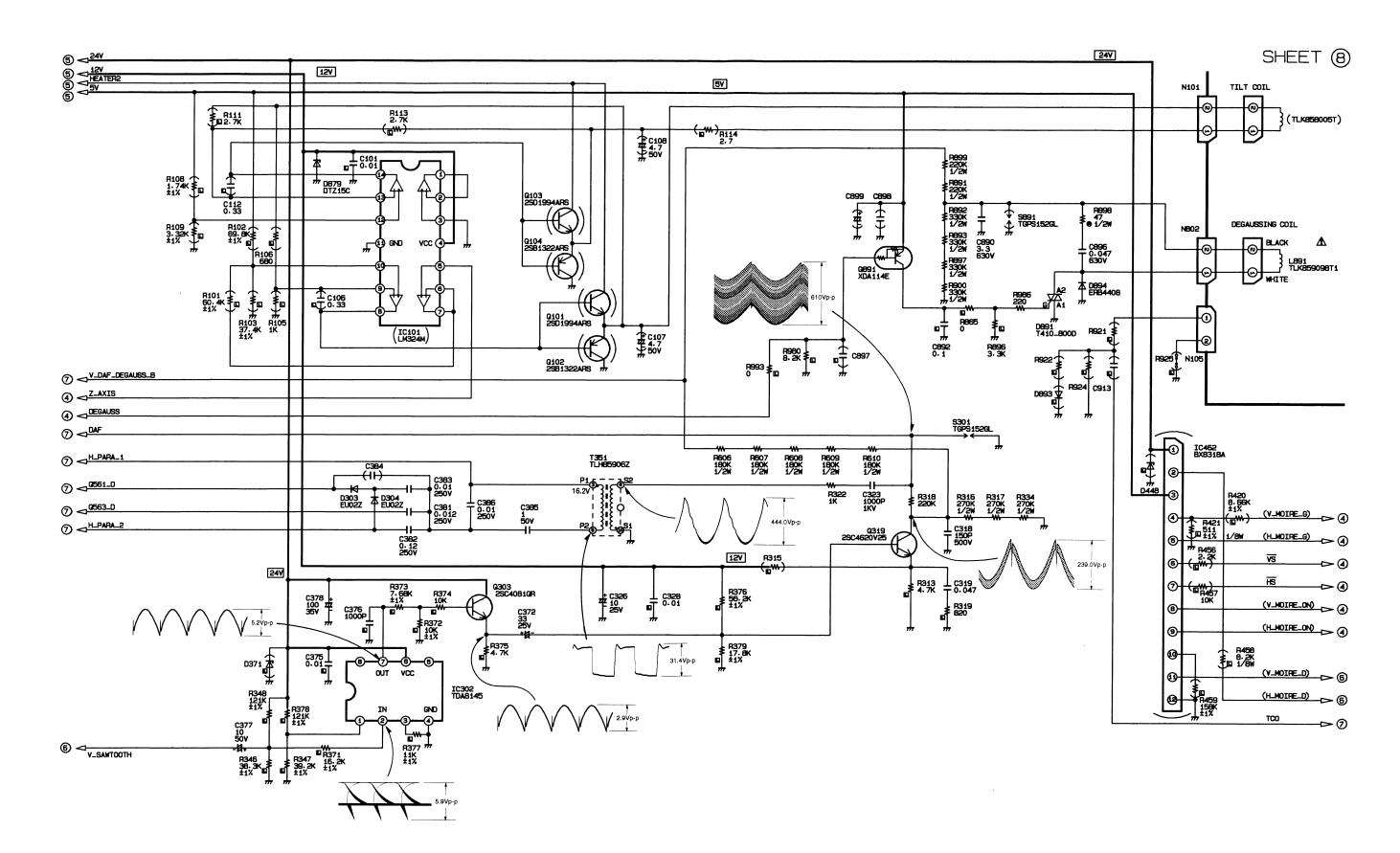




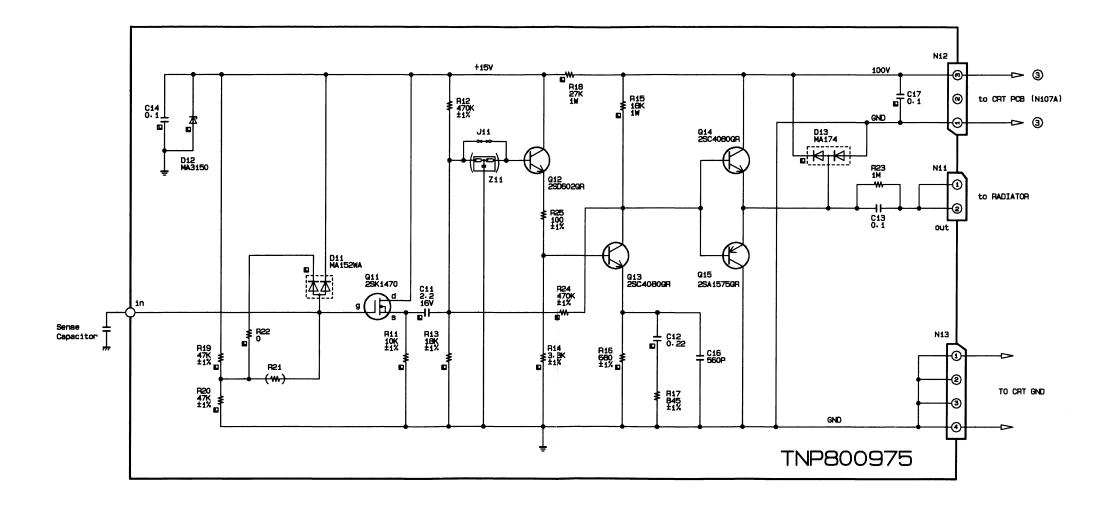




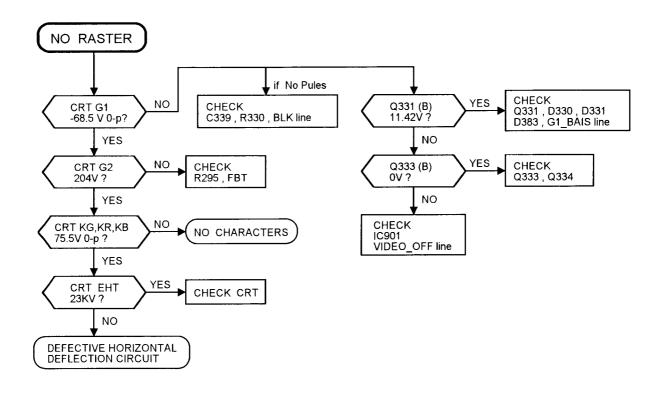


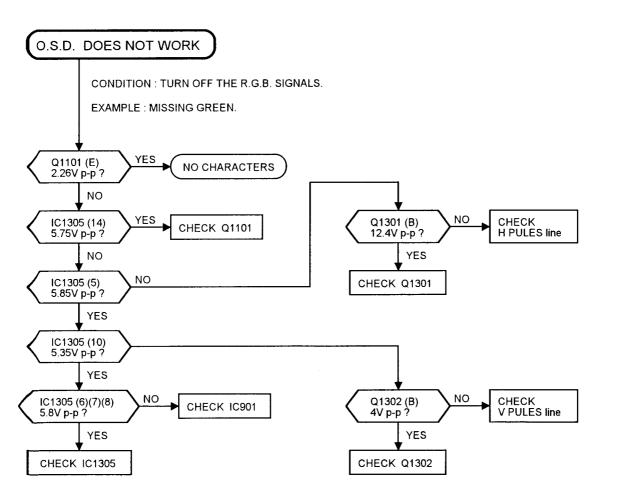


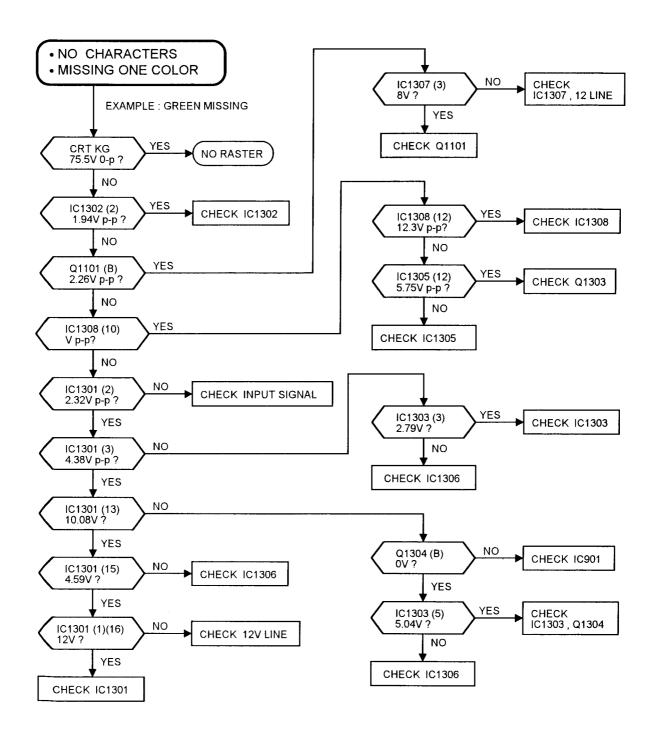
TNP890535 A

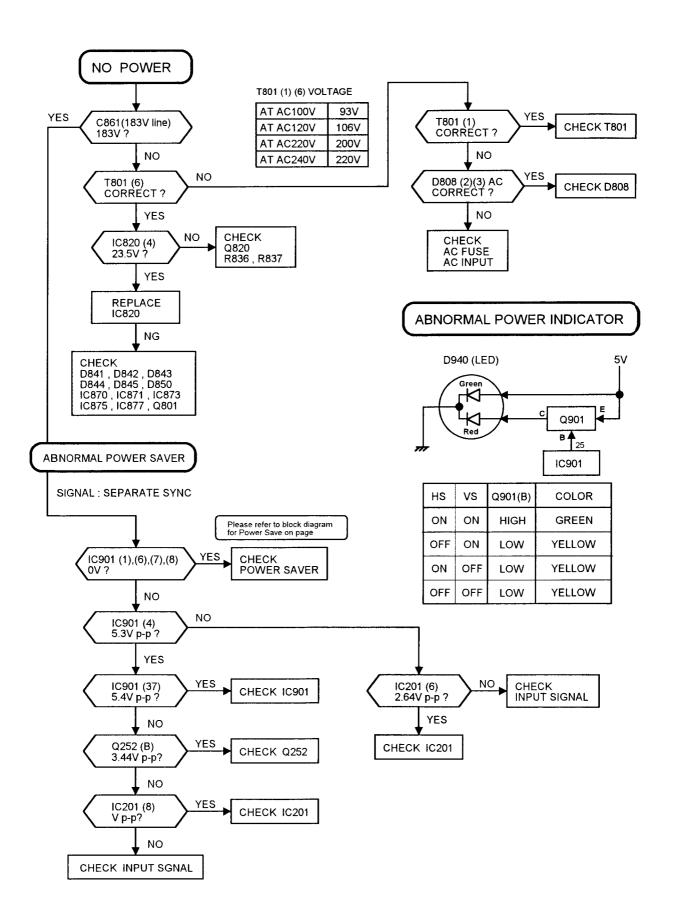


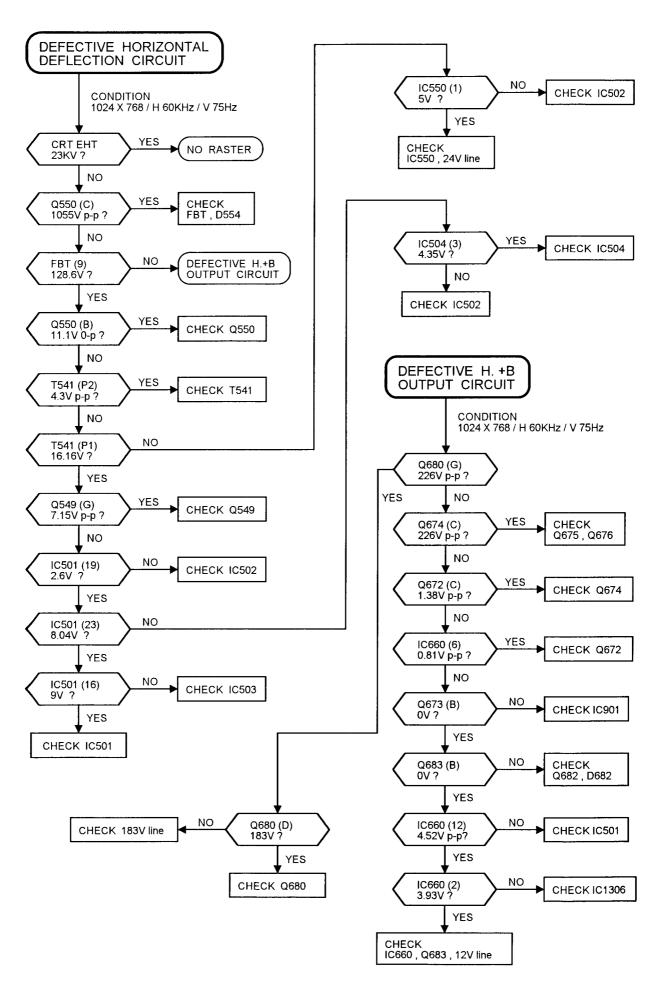
# TROUBLE SHOOTING HINTS

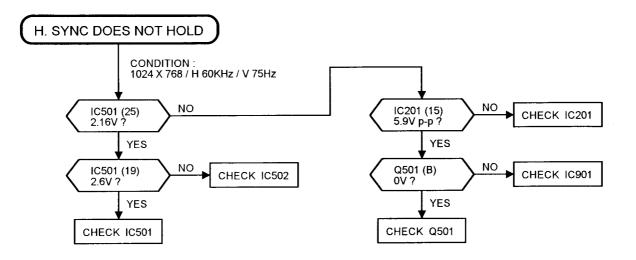




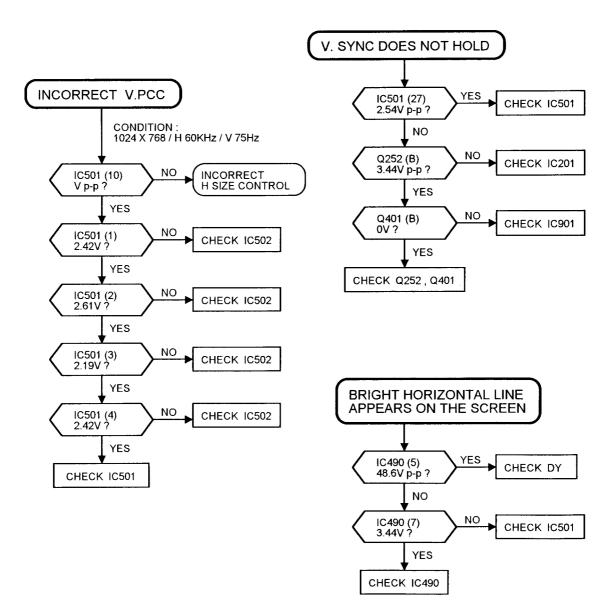


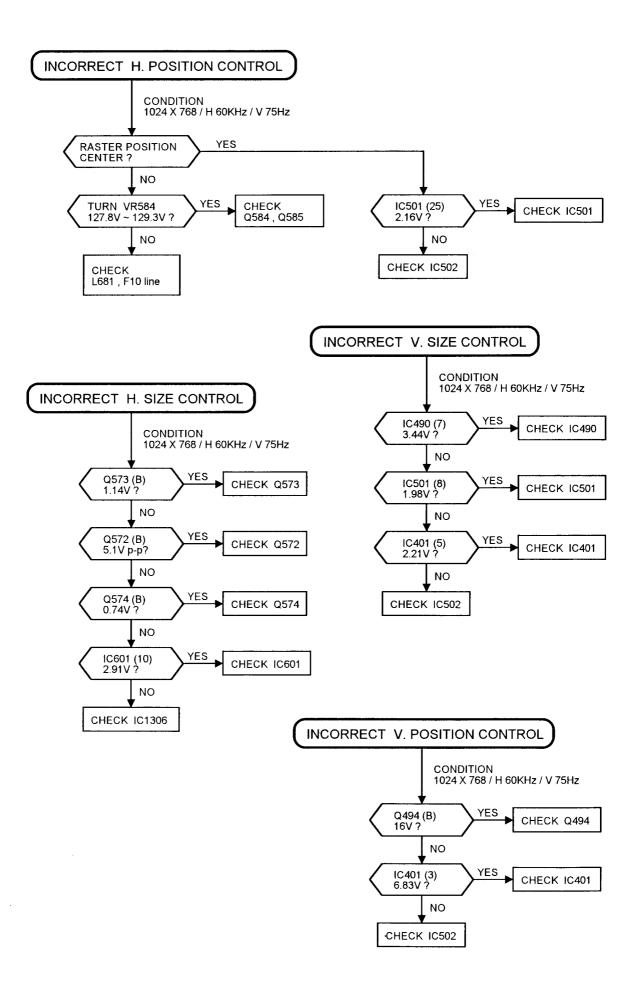






If no horizontal and/or vertical sync from PC, then the power save circuit becomes active.





# REPLACEMENT PARTS LIST

# - Important Safety Notice -

Components identified by the International symbol  $\Lambda$  have special characteristics important for safety. When replacing any of these components use only manufacture's specified parts.

### **CAPACITOR RESISTOR** PART NAME & DESCRIPTION PART NAME & DESCRIPTION TYPE **TYPE** ALLOWANCE ALLOWANCE C ± 0.25pF C Carbon F ± 1% C Ceramic F Fuse J ± 5% E Electrolytic D : ± 0.5pF κŢ Р Polyester F M Metal Oxide ± 10% ± 1pF S Solid M ± 20% S Styrol J ± 5% W Wire Wound G ± 2% K T Tantalum ± 10% PP Polypropylene L ± 15% М ± 2Ó% P +100% - 0% Z +80% - 20% Part No. Description Part No. Description ECKF1H103ZF(C) 0.01µF 1/4W 50V Example: ERD25TJ104 (C) 100K (J) Example: (z)

	Ref.No.	Part No.	Description		Ref.No.	Part No.	Description
						TBX8752201	KNOB(CONTROL)
1		CABINET &				TES8365	FBT SPRING
İ		MAIN PARTS			23	TES8366	FBT SPRING(HOOK)
1						TES9148-3	SPRING(CRT EARTH)
$\Lambda$	1	TKY859511	BOTTOM CABINET		24	TES9531	CRT PCB HOLDER
$\Lambda$	2	TKE8711B05	ESCUTCHEON <nm></nm>				
<b>△</b>	2	TTE8711B05-3	ESCUTCHEON <- E, -G, -SW, -U>	1	25	TMM15404-1	SPACER RING
$\overline{\mathbb{A}}$	3	TKU894207-1H	REAR COVER W/MODEL PLATE			TMM15414	CLAMPER(SMALL)
1			<nm></nm>			TMM7464	LEAD CLAMPER (SMALL)
				ļ		TMM7468	CLAMPER
$\triangle$	3	TKU894207-3H	REAR COVER W/MODEL PLATE		26	TMM85576-1	CRT RUBBER
Δ	3	TKU894207-5H	REAR COVER W/MODEL PLATE			TMM85586	RUBBER(WEDGE)
			<-SW>		1	TMKG001	RUBBER
Δ	3	TKU894207-6H	REAR COVER W/MODEL PLATE		1	TMKG003	RUBBER
	_				1	TMK84990	SET LEG
l	ļ		<-U>			TMK85572	FERRITE STICK
	4	TKX871701	MAIN PCB HOLDER				
l		TKK859310	LED GUIDE			TMK85584	SWITCH BARRIER
		TKK859745	CONNECTOR COVER		i	THEC0019	SCREW(FOR CRT PC: HOLDER)
ŀ	1 1	TKK859973	BLIND COVER			THT 1027	SCREW(FOR CRT)
ļ						THT 1069	SCREW(FOR SHIELD CASE)
]	6	TKK859979	PEDESTAL	1		XTB4+12J	SCREW
1		TKK859980	CENTER POST				
1		TUX86195	BOTTOM PLATE BRACKET	1		XTN5+16A	SCREW
		TUX87721	BOTTOM PLATE	1	1	XTN5+25AFC	SCREW
		TSAA3001	RADIATOR		}	XYA4+EF8	SCREW
1		, 3,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			1	XYE3+EJ10	SCREW
l	10	TUC86948	EARTH METAL (R-UPPER)	Δ		M41KXH140X-W	
		TUC86949	EARTH METAL(L-UPPER)	4			1373,12 7332
		TUC86950-1	EARTH METAL (R-UNDER)		31	TNP800970-21	PC BOARD W/COMPONENT(CRT)
		TUC86951	EARTH METAL (L-UNDER)				PC BOARD W/COMPONENT(TCO)
		TUC87308	EARTH METAL (D-SUB)	Δ			PC BOARD W/COMPONENT(M)
		10007000	EARTH METALCO GOD,	<u> </u>	1	MEY41GHD	DEFLECTION YOKE
	15	TUC87566-2	SHIELD CASE	1 44		ETC33D53NC	CONVERGENCE COIL
		TUC87567-1	SHIELD CASE(REAR)	l		Lioubudito	00,112,132,132
l		TUC87579	SHIELD CASE(CRT PCB)	Δ	35	TLK859098T1	DEGAUSS COIL
		TUC87580	SHIELD PLATE(CRT PCB)	''		TSXX004	1P TERMINAL CORD
Δ	7	TBMC042	MODEL PLATE <- E , - G>	l		TSXX005	2P CONNECTOR CORL
_ <del>'''</del> :		50042		l	1	TSXX006	2P/3P CONNECTOR CRD
Λ	10	TBMC043	MODEL PLATE<-U>	l	Į.	TSXX008	2P CONNECTOR CORL
Ţ.		TBMC044	MODEL PLATE <- SW>			3777000	2. SSIMESTON SSIM
$\Lambda$		TBM850546	MODEL PLATE - SW>	1		TSX4515	SIGNAL CORD<-E,-(SW>
4.		TBX8751301	KNOB(POWER SWITCH)	l		TSX4515-1	SIGNAL CORD< L, (, 347
		JIBA8/513U1	NNOD (PUWER SWITCH)	Ŀ	<u> </u>	1374313-1	DIGNAL CURDY-0, IN

Г	Ref.No.	Part No.	Description	Ref.No.	. Part No.	Description
A		TSX8484	POWER CORD<-EG>	IC877	SI-3025F	HYBRID IC
<b>A</b>			POWER CORD<-SW>	IC901	TVC80219-1E	IC
1 4	1	-	POWER CORD<-U>	10902	TVR8AJ023	IC
AAAA	l .	· <del>-</del> · · - ·	POWER CORD <nm></nm>		M52326SP	ic
4	L .					
	36	TSX9809	FLAT CORD(10P)	101302	EYO7PY2	HYBRID IC
1	37	TSX9810	FLAT CORD(22P)	IC1303	BLM324MX	IC
i i		TJT8999	HEXAGON POST	IC1304	1LM2931CMX	IC
1		TXA3A11733VM	CRT EARTH LEAD	IC1305	SLSC4330	IC
		, xxx o x x x x x x x x x x x x x x x x	<-E,-G,-SW,-U>		MB88346BPFTF	IC
1		TX43411733NM	CRT EARTH LEAD <nm></nm>		7L78M08T	ic
İ			MAGNET		3MM74HC4066MX	IC
			POLYESTER TAPE(20M)	101300	104000000	
			COTTON TAPE(55M) MAIRA TAPE		TRANSISTORS	
			i .	Q11	2SK1470TD	TRANSISTOR
		TPCA02301	DUTER CARTON	1 .		
				Q12	2SD602R	TRANSISTOR
			<-E,-G,-SW,-U>	Q13	2SC4080DETD	TRANSISTOR
		TPC8552701	DUTER CARTON <nm></nm>	Q14	2SC4O8ODETD	TRANSISTOR
1			FILLER	Q15	2SA1575DETD	TRANSISTOR
1		TPE814109	SET COVER < NM>			
1			SET COVER<-E,-G,-SW,-U>	Q250	XDC114EU	TRANSISTOR
1			DET 00 TER - 2, 0, 5#, 0		XDA114EU	TRANSISTOR
			FULL DAG COVER CAME	1		l :
		TQE8513-1	FUN BAG COVER <nm></nm>	1 -	XDC114EU	TRANSISTOR
1		TQE8513-2	FUN BAG COVER	Q303	2SC4081R	TRANSISTOR
$ _{\Lambda}$		TQBEOOO6	<-E,-G,-SW,-U> INSTRUCTION BOOK	Q307	2SC3938R	TRANSISTOR
1			<-EGSWU>	Q308	XDC114EU	TRANSISTOR
			' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '		2SC3938R	TRANSISTOR
		TODOOOCO	INSTRUCTION BOOK <nm></nm>	1 .	2SC4620V25	TRANSISTOR
Δ		TQB820269	1	1 .		l .
		TQDE 18002	WARRANTY CARD<-E>	Q331	2SA1018Q	TRANSISTOR
		1 -	WARRANTY CARD<-U> PASS CARD	Q333	XDC114EU	TRANSISTOR
1	i	1001712010	I .	0334	XDC114EU	TRANSISTOR
			<-E,-G,-SW,-U>	1.7		E .
1				1 -	XDC114EU	TRANSISTOR
1		TQF80720	HWC LABEL <nm></nm>		2SD1994AQ	TRANSISTOR
		TQF82880	HIGH VOLTAGE LABEL <nm></nm>	Q495	2SB1329R	TRANSISTOR
1		TQF83825-6	SERIAL NO. LABEL	Q501	XDC114EU	TRANSISTOR
l		TQF85363-2	CARTON LABEL<-G>			
1			CARTON LABEL<-SW>	Q549	2SK2015Z	TRANSISTOR
1		. 4, 55555		1 '	2SC5243002FD	1
1		TOF05000 4	CARTON LABEL<-U>	1 .	XDC114EU	TRANSISTOR
		1 7	I	1	1	
			CARTON LABEL<-E>	1.7	2SK2161YB	TRANSISTOR
⚠		TQF86550	EARTH CAUTION LABEL<-SW>	Q562	XDC114EU	TRANSISTOR
		TQF86574	US PATENTS LABEL <nm></nm>			
		TQF86583-1	POWER CORD LABEL<-U>	Q563	2SK2161YB	TRANSISTOR
				Q568	XDC114EU	TRANSISTOR
Δ		TQF86608	EARTH CAUTION LABEL	Q569	XDC114EU	TRANSISTOR
"			<-E,-G,NM>	Q572	2SB122OR	TRANSISTOR
1	1		_, _,	Q573	2SD1273PLB	TRANSISTOR
1	1	I.C		'		
1				Q574	2SD1824R	TRANSISTOR
1	IC201	M52346SP	IC		2SB792AR	TRANSISTOR
	1	1	I C		2SD2133S	TRANSISTOR
1		24LC21TISN				1
1	1	TDA8145	IC	1 *	2SB1413S	TRANSISTOR
1		LM358MX	IC	Q602	XDC114EU	TRANSISTOR
	IC401	LM358MX	IC			T
1	L			1 '	2SC3938R	TRANSISTOR
1	IC490	TDA9302H	IC	Q673	XDC114EU	TRANSISTOR
1	IC501	UPC1883	IC	Q674	2SC4212H	TRANSISTOR
1	IC502		IC	Q675	2SD1664Q	TRANSISTOR
1			IC	1 '	2SB1132Q	TRANSISTOR
		LM358MX	IC	3370		
				<b>Q</b> 680	IRF1634G	TRANSISTOR
1	IC550	AN6531	lic I	Q682	XDC114EU	TRANSISTOR
		LM324MX	lic	1 '	XDC114EU	TRANSISTOR
ł	10660	TVS1103	, ,	Q801	2SB1414R	TRANSISTOR
1	10000	1 V3 1 1U3	IC IC			
]	10820	STR-S6533	HYBRID IC	Q802	2SC1473QNC	TRANSISTOR
	100/0	M5F7824L	IC	Q803	2SD1819AR	TRANSISTOR
1	IC871	CT_0400EALE		1 '	2SC3938R	TRANSISTOR
		SI-3120FALF	IC IC	1.	)	l I
1		SI-3240CA	HYBRID IC	Q811	XDC114EU	TRANSISTOR
L	IC876	L78LRO5C-MA	IC	Q812	XDC114EU	TRANSISTOR

Ref.No.	Part No.	Description		Ref.No.	Part No.	Description
Q813	XDC114EU	TRANSISTOR		D563	ERC30-02	DIODE
1 1 1	XDC114EU	TRANSISTOR		1	EUO2A	DIODE
Q820	2SC4620V25	TRANSISTOR		D601	ERA34-10	DIODE
Q822	2SC1473AR	TRANSISTOR		1 '	ERA34-10	DIODE
Q823	XDC114EU	TRANSISTOR		D603	1SS353	DIODE
Q824	2SD1820AR	TRANSISTOR		D604	EUO2	DIODE
1 1 7	2SB122OR	TRANSISTOR		1	155353	DIODE
Q891	XDA114EU	TRANSISTOR			MA 167	DIODE
F .	XDA114EU	TRANSISTOR		D661	DTZTT1115C	DIODE
<b>Q</b> 903	XDC114EU	TRANSISTOR		D667	188353	DIODE
01001	2SC3811R	TRANSISTOR		D668	155353	DIODE
1 1	2SC3811R	TRANSISTOR		1	155353	DIODE
1 1	2SC3811R	TRANSISTOR		_	1\$\$353	DIODE
1 1 1	2SC3811R	TRANSISTOR		1 -	ERA18-04	DIODE
Q1201	2SC3811R	TRANSISTOR		D680	DTZTT1115C	DIODE
01202	2SC3811R	TRANSISTOR		D681	СВ903-4	DIODE
	XDC114EU	TRANSISTOR		D682	DTZTT117R5C	DIODE
1	XDC114EU	TRANSISTOR		1	ERZVEAV431	VARISTOR
1 7	2SC3938R	TRANSISTOR	$\Phi$	1	ERZVEAV431	VARISTOR
Q1304	XDC114EU	TRANSISTOR		D807	EGO1Z	DIODE
	DIODES			D808	RBV406M	DIODE
				0809	1SS353	DIODE
D11	MA152WA	DIODE		1	DTZTT1124B	DIODE
D12	MA3150M	DIODE			DTZTT1118B	DIODE
D13 D201	MA174 155353	DIODE		D821	ERA34-10	DIODE
D201		DIODE		D841	TVSRG2A	DIODE
				I .	ERC3806	DIODE
D207		DIODE		1	TVSRG2	DIODE
D280	DTZTT115R6B	DIODE		1	RL4Z	DIODE
D281 D282		DIODE		D845	ERC30-02	DIODE
D283	1	DIODE		D847	DTZTT1124A	DIODE
				D848	EMO1Z	DIODE
D302	DTZTT119R1C	DIODE		,	TVSRG2A	DIODE
D303	EU02Z	DIODE		1	DTZTT116R8A DTZTT1118B	DIODE
D304 D305	EU02Z 1SS353	DIODE DIODE		06/1	D12111110D	
D306	1SS353	DIODE		D891	T410-800D	DIODE
				1	ERB4408	DIODE
D307	1\$\$353	DIODE		1	1	DIODE
D330	1 SS353 HZT33-09TD	DIODE		1	RB706F40 DTZTT115R6B	DIODE
1 1 -		DIODE		0505	DIZITITOROB	
D38 1	TAX125X103MA	i .		D907	DTZTT115R6B	DIODE
				1	MTZJ5R6B	DIODE
D382	ERZCO5DK201U	I		i		DIODE
D383	EUO2Z EUO2	DIODE				DIODE
D401	MA7100A	DIODE				
D404	MA1180L	DIODE			SML1816W	DIODE(LED)
				1		DIODE
D405	1SS353	DIODE		Į.	MA142WK	DIODE DIODE
D408 D497	DTZTT1136B MA30WA	DIODE			DTZTT115R6B DTZTT115R6B	DIODE
D501	1SS353	DIODE			[	
D505	I .	DIODE		į.		DIODE
				!		DIODE
D507		DIODE			F .	DIODE
D550 D551	155353 ERA81004	DIODE		-	DTZTT115R6B	DIODE
		DIODE				<del>-</del>
1 !	FMP-3FU	DIODE			t .	DIODE
		D. 1005			155353	DIODE
D556 D558	155353	DIODE		1	155353 Ma142WK	DIODE DIODE
D560	DTZTT1115C TVSRG2A	DIODE		4	1SS353	DIODE
_	EUO2A	DIODE				
	ERC30-02	DIODE		1	188353	DIODE
				D1108	MA142WK	DIODE

Digot   ISSSES   DidDE		Ref.No.	Part No.	Description	Ref.No.	Part No.	Description			
D1020   S15385   D10DE		D1201	155353	DIODE	C204	ECUX 1H472KBG	C	4700PF	K	50V
D100B   MA142WK   D100E   C206   ECUX1H103KRG   C		_			1 1					
Dispoint   Dispoint										
D1300   D12TT115R8B   D10DE	1	1							K	
D1304   D12TT1115R6B   D10DE   C209   ECUX1H333KBX   C 0.033LF   K 50V   D1306   D12TT1115R6B   D10DE   C210   ECUX1H102KBN   C 1000PF   K 50V   C210   ECUX1H102KBN   C 100PF   K 50V   C210   ECUX1H102KBN   C 10PF   K 50V   ECUX1H102KBN   C 10PF				l .			I			
Dispos   Dispos		D1303	DTZTT115R6B	DIODE	C208	ECEA1HGER47	E	0.47UF		50V
Dispos   Dispos		D1304	DT7TT115B6B	DIODE	0209	ECUX 1H333KBX	r	O 033HE	K	50V
Dispos Dispos Dispos   Dispo			1	•						
D1307   D12TT115RBB   D10DE   C212   ECEA1GE101   E   100UF   K   50V	ļ			•		§	ı			
D1401   SS\$53   D10DE				1		1	1.		K	
D1401   ISS383	l	1	1							
D1402	İ	D1311	DTZTT115R6B	DIODE	C213	ECUX1H102KBN	С	1000PF	K	50V
D1402   ISS355		D1401	1SS353	DIODE	C214	ECQV1H474JM	P	0.47UF	J	50V
COIL & TRANSFORMERS		D1402	155353	DIODE	1		F			
COIL 8   TARNSFORMERS   C305   ECUX1H221KBN C 200PF   SOV									V	
TRANSFORMERS			COTI							
L381										
L 521 ELEY561KA PEAKING COIL L561 TLUACNB2RZM PEAKING COIL L570 TLUACNB2RZM PEAKING COIL L570 TLUACNB2RZM PEAKING COIL L573 TLHECO1 L573 TLHECO1 L575 TLHES515T COIL L575 TLHES515T COIL L576 LEVENCHAR COIL L577 TLHES519Z COIL L578 TLHES515T COIL L578 TLHES515T COIL L579 TLHES519Z COIL L570 TLHES519Z COIL L570 TSKB031 FERTITE CORE L570 TSKB031 FERTITE CORE L571 TLHES519Z COIL L570 TSKB031 FERTITE CORE L571 TLHES519Z COIL L571 TLHES519Z COIL L571 TLHES519Z COIL L572 TLHES519Z COIL L572 TLHES519Z COIL L573 TLHES519Z COIL L574 TLHES519Z COIL L574 TLHES519Z COIL L575 TLHES519Z COIL L575 TLHES519Z COIL L575 TLHES519Z COIL L575 TLHES519Z COIL L575 TLHES519Z COIL L576 TLHES519Z COIL L577 TLHES519Z COIL L577 TLHES519Z COIL L577 TLHES519Z COIL L578 TLHES519Z COIL L578 TLHES519Z COIL L579 TLHES519Z COIL L579 TLHES519Z COIL L579 TLHES519Z COIL L570 TSKB031 FERTITE CORE C575 ECUX1H103KBG C 0.01UF K 50V L821 EXCELDB35C LC COMBINATION C378 ECEA1VGE103 F P 0.01UF J 20V L851 EXCELDB35C LC COMBINATION C382 ECCES103JF P 0.01UF J 20V L852 EXCELDB35C LC COMBINATION C385 ECQVIHI05JM P 1.0UF J 50V L852 EXCELDB35C LC COMBINATION C385 ECQVIHI05JM P 1.0UF J 50V L570 TLHES519Z COIL L570 TLHES519		ļ								
L521		1			1 1	1	С			
L561				1	1	1	C			
L570		L521	ELEY561KA	PEAKING COIL	C319	ECQV1H473JM	Ρ	0.047UF	J	50 <b>V</b>
1.573   TLHE001   COIL   C326   ECKA 16GE100   E 100F   25V		L561	TLUACNB2R2M	PEAKING COIL	C320	ECEA1HGE100	Ε	10UF		50V
1.573   TLHE001   COIL   C326   ECKA 16GE100   E 100F   25V	l		ELCO8DO96D	í l					J	
L575 TLH85819T COIL C326 ECCA1EGE100 E 0.0 UF							_		-	
LB578   TLHS5819Z   CDIL   CBM   TLHS570PM   CHOKE COIL   CBM   TLHS570PM   CHOKE COIL   CBM   TLHS570PM   CHOKE COIL   CBM   CHOKE COIL   CBM		1		1 -		1			J	
L 801		t .				1				
∆         B001         ELF180656J         LINE FILTER         C372         ECA1EGE330         E         33UF         25V           Å         L802         ELF180656J         LINE FILTER         C375         ECUX1H103KBG         C         0.01UF         K         50V           L821         EXCELDR35C         LC COMBINATION         C376         ECUX1H103KBG         C         0.01UF         K         50V           L822         EXCELDR35C         LC COMBINATION         C378         ECEA1GE100         E         10UF         25V           L844         EXCELDR35C         LC COMBINATION         C381         ECCE2123JF         P         0.01UF         J         200V           L851         EXCELDR35C         LC COMBINATION         C385         ECCE2103JF         P         0.01UF         J         200V           L852         EXCELDR35C         LC COMBINATION         C386         ECCE2103JF         P         0.01UF         J         200V           L853         EXCELDR35C         LC COMBINATION         C386         ECCE2103JF         P         0.01UF         J         50V           L850         EXCELDR35C         LC COMBINATION         C386         ECCE2103JF         P         0.					1	1	С			
∆         ∆         BO2         ELF18D656J FERRITE CORE LS21         LS21         EXCELDR35C LC COMBINATION C376         C376         ECUX1H103KBG C O.01UF K 50V C376         C50V E25V C376<			TLP85709R		C339		Ρ	0.047UF	K	200V
L821 EXCELDR35C LC COMBINATION C378 ECGA1GE101 E 1000F 25V L823 EXCELDR35C LC COMBINATION C378 ECGA1GE101 E 1000F 35V L824 EXCELDR35C LC COMBINATION C378 ECGA1GE101 E 1000F 35V L825 EXCELDR35C LC COMBINATION C388 ECGE2103JF P 0.01UF J 200V L851 EXCELDR35C LC COMBINATION C388 ECGE2103JF P 0.01UF J 200V L851 EXCELDR35C LC COMBINATION C388 ECGE2103JF P 0.01UF J 200V L852 EXCELDR35C LC COMBINATION C388 ECGE2103JF P 0.01UF J 200V L852 EXCELDR35C LC COMBINATION C388 ECGE2103JF P 0.01UF J 200V L853 EXCELDR35C LC COMBINATION C388 ECGE2103JF P 0.01UF J 200V L853 EXCELDR35C LC COMBINATION C386 ECGE2103JF P 0.01UF J 200V L853 EXCELDR35C LC COMBINATION C386 ECGE2103JF P 0.01UF J 200V L1002 ELEXHR30KA PEAKING COIL C401 ECGA1HGE010 E 1UF 50V L1101 ELEXHR2CKA PEAKING COIL C401 ECGA1HGE010 E 1UF 50V L1202 ELEXHR30KA PEAKING COIL C401 ECGA1HGE010 E 1UF 50V L1301 ELEXHOOKA PEAKING COIL C404 ECUX1H103KBG C 0.01UF K 50V L1301 ELEXHOOKA PEAKING COIL C404 ECUX1H103KBG C 0.01UF K 50V L1301 ELEXHOOKA PEAKING COIL C405 ECGA1GE010 E 100UF 16V L1307 ELEXHOOKA PEAKING COIL C406 ECGA1GE010 E 10UF 16V ECGA1GE010 E 10UF 16V ECGA1GE010 E 10UF 16V ECGA1GE010 E 20UF 25V L1307 ELEXHOOKA PEAKING COIL C406 ECGA1GE010 E 10UF 16V ECGA1GE010 E 20UF 25V EXCELDR36X PEAKING COIL C407 ECCA1GE021 E 20UF 25V EXCELDR36X PEAKING COIL C407 ECGA1GE010 E 10UF 50V ECGA1GE010 E 20UF 35V EXCELDR36X PEAKING COIL C407 ECGA1GE010 E 10UF 50V ECGA1GE010 E 20UF 35V EXCELDR36X PEAKING COIL C407 ECGA1GE010 E 10UF 50V ECGA1GE010 E 20UF 35V EXCELDR36X PEAKING COIL C407 ECGA1GE010 E 20UF 35V ECGA1GE010 E 20UF 35V EXCELDR36X PEAKING COIL C407 ECGA1GE010 E 20UF 35V ECGA1GE010 E 20UF 35V EXCELDR36X PEAKING COIL C408 ECGA1GE010 E 20UF 35V ECGA1GE010 E 20UF 35V EXCELDR36X PEAKING COIL C408 ECGA1GE010 E 20UF 35V EXCELDR36X PEAKING COIL ECGA1GE010 E 20UF 35V EXCELDR36X PEAKING COIL ECGA1GE010 E 20UF 35V EXCELDR36X PEAKING COIL ECGA1GE010 E 20UF 35V EXCELDR36X PEAKING COIL ECGA1GE010 E 20UF 35V EXCELDR36X PEAKING COIL ECGA1GE010 E 20UF 35V EXCELDR36X PEAKING COIL ECGA1GE010 E 20UF 3	Δ	L801	ELF18D656J	LINE FILTER	C372	ECEA1EGE330	Ε	33UF		25V
L821 EXCELDR35C LC COMBINATION C378 ECGA1GE101 E 1000F 25V L823 EXCELDR35C LC COMBINATION C378 ECGA1GE101 E 1000F 35V L824 EXCELDR35C LC COMBINATION C378 ECGA1GE101 E 1000F 35V L825 EXCELDR35C LC COMBINATION C388 ECGE2103JF P 0.01UF J 200V L851 EXCELDR35C LC COMBINATION C388 ECGE2103JF P 0.01UF J 200V L851 EXCELDR35C LC COMBINATION C388 ECGE2103JF P 0.01UF J 200V L852 EXCELDR35C LC COMBINATION C388 ECGE2103JF P 0.01UF J 200V L852 EXCELDR35C LC COMBINATION C388 ECGE2103JF P 0.01UF J 200V L853 EXCELDR35C LC COMBINATION C388 ECGE2103JF P 0.01UF J 200V L853 EXCELDR35C LC COMBINATION C386 ECGE2103JF P 0.01UF J 200V L853 EXCELDR35C LC COMBINATION C386 ECGE2103JF P 0.01UF J 200V L1002 ELEXHR30KA PEAKING COIL C401 ECGA1HGE010 E 1UF 50V L1101 ELEXHR2CKA PEAKING COIL C401 ECGA1HGE010 E 1UF 50V L1202 ELEXHR30KA PEAKING COIL C401 ECGA1HGE010 E 1UF 50V L1301 ELEXHOOKA PEAKING COIL C404 ECUX1H103KBG C 0.01UF K 50V L1301 ELEXHOOKA PEAKING COIL C404 ECUX1H103KBG C 0.01UF K 50V L1301 ELEXHOOKA PEAKING COIL C405 ECGA1GE010 E 100UF 16V L1307 ELEXHOOKA PEAKING COIL C406 ECGA1GE010 E 10UF 16V ECGA1GE010 E 10UF 16V ECGA1GE010 E 10UF 16V ECGA1GE010 E 20UF 25V L1307 ELEXHOOKA PEAKING COIL C406 ECGA1GE010 E 10UF 16V ECGA1GE010 E 20UF 25V EXCELDR36X PEAKING COIL C407 ECCA1GE021 E 20UF 25V EXCELDR36X PEAKING COIL C407 ECGA1GE010 E 10UF 50V ECGA1GE010 E 20UF 35V EXCELDR36X PEAKING COIL C407 ECGA1GE010 E 10UF 50V ECGA1GE010 E 20UF 35V EXCELDR36X PEAKING COIL C407 ECGA1GE010 E 10UF 50V ECGA1GE010 E 20UF 35V EXCELDR36X PEAKING COIL C407 ECGA1GE010 E 20UF 35V ECGA1GE010 E 20UF 35V EXCELDR36X PEAKING COIL C407 ECGA1GE010 E 20UF 35V ECGA1GE010 E 20UF 35V EXCELDR36X PEAKING COIL C408 ECGA1GE010 E 20UF 35V ECGA1GE010 E 20UF 35V EXCELDR36X PEAKING COIL C408 ECGA1GE010 E 20UF 35V EXCELDR36X PEAKING COIL ECGA1GE010 E 20UF 35V EXCELDR36X PEAKING COIL ECGA1GE010 E 20UF 35V EXCELDR36X PEAKING COIL ECGA1GE010 E 20UF 35V EXCELDR36X PEAKING COIL ECGA1GE010 E 20UF 35V EXCELDR36X PEAKING COIL ECGA1GE010 E 20UF 35V EXCELDR36X PEAKING COIL ECGA1GE010 E 20UF 3	<b>A</b>	1802	F1 F18D656.1	I INF FILTER	C375	FCUX1H103KBG	c	0.0105	K	50V
L821 EXCELDR35C LC COMBINATION C378 ECEA14GE100 E 100F 35V L823 EXCELDR35C LC COMBINATION C381 ECQE2123JF P 0.01UF J 200V L844 EXCELDR35C LC COMBINATION C381 ECQE2123JF P 0.01UF J 200V L851 EXCELDR35C LC COMBINATION C385 ECQV17105JM P 1.0UF J 200V L851 EXCELDR35C LC COMBINATION C385 ECQV17105JM P 1.0UF J 200V L852 EXCELDR35C LC COMBINATION C385 ECQV17105JM P 1.0UF J 50V L852 EXCELDR35C LC COMBINATION C386 ECQV27105JM P 1.0UF J 50V L852 EXCELDR35C LC COMBINATION C386 ECQV27105JM P 1.0UF J 50V L852 EXCELDR35C LC COMBINATION C386 ECQV27105JM P 1.0UF J 50V L852 EXCELDR35C LC COMBINATION C386 ECQV27105JM P 1.0UF J 50V L902 ELEXHR34KA PEAKING COIL C401 ELEXHR24KA PEAKING COIL C401 ELEXHR24KA PEAKING COIL C401 ELEXHR33KA PEAKING COIL C402 ECUX11103KBG C 0.01UF K 50V L1202 ELEXHR33KA PEAKING COIL C403 ECUX11103KBG C 0.01UF K 50V L1301 ELEXH100KA PEAKING COIL C404 ECUX11103KBG C 0.01UF K 50V L1301 TLABSMA PEAKING COIL C405 ECEA16GE201 E 100UF 16V EXPLISION TRANSFORMER C405 ECEA16GE201 E 20UF 25V L1307 ELUFA100KB PEAKING COIL C406 ECEA16GE470 E 47UF 16V L1307 ELUFA100KB PEAKING COIL C406 ECEA16GE201 E 20UF 25V L1307 ELUFA100KB PEAKING COIL C407 ECEA16GE201 E 20UF 25V L1307 ELUFA100KB PEAKING COIL C408 ECEA116GE100 E 100UF 16V EXPLISION TRANSFORMER C409 ECCA16GE201 E 20UF 25V L1307 ELUFA100KB PEAKING COIL C408 ECEA116GE100 E 100UF 50V ECA16GE101 E 100UF 16V ECX11160 E 10UF 25V C409 ECCA16GE201 E 20UF 25V C409 ECCA16GE201 E 20UF 35V ECA16GE201 E 20UF 25V ECA16GE201 E 20UF 100UF 25V ECA16GE201 E 100UF 25V ECA16GE201 E 100UF 25V ECA16GE201 E 100UF 25V ECA16GE201 E 100UF 25V ECA16GE201 E 100UF 25V ECA16GE201 E 100UF 25V ECA16GE201 E 100UF 25V ECA16GE201 E 100						)				-
L822 EXCELDR35C LC COMBINATION C381 ECQE2123JF P 0.012UF J 200V L845 EXCELDR35C LC COMBINATION C382 ECQE2123JF P 0.012UF J 200V L845 EXCELDR35C LC COMBINATION C385 ECQE2103JF P 0.01UF J 200V L851 EXCELDR35C LC COMBINATION C385 ECQE2103JF P 0.01UF J 200V L852 EXCELDR35C LC COMBINATION C385 ECQE2103JF P 0.01UF J 200V L852 EXCELDR35C LC COMBINATION C385 ECQE2103JF P 0.01UF J 200V L852 EXCELDR35C LC COMBINATION C385 ECQE2103JF P 0.01UF J 200V L853 EXCELDR35C LC COMBINATION C385 ECQE2103JF P 0.01UF J 200V L1002 ELEXHR39KA PEAKING CDIL C401 ECEA1HGE010 E 1UF 50V L1102 ELEXHR22KA PEAKING CDIL C401 ECEA1HGE010 E 1UF 50V L1202 ELEXHR39XA PEAKING CDIL C402 ECUX1H103KBG C 0.01UF K 50V L1301 ELEXH100KA PEAKING CDIL C402 ECUX1H103KBG C 0.01UF K 50V L1301 ELEXH100KA PEAKING CDIL C404 ECUX1H103KBG C 0.01UF K 50V L1302 ELEXH151KA PEAKING CDIL C405 ECEA1GE21 E 220UF 25V L1305 ELEXH151KA PEAKING CDIL C407 ECA1GE22 E 220UF 35V L1305 ELEXH151KA PEAKING CDIL C407 ECEA1HGE100 E 10UF 50V TANNSFORMER C412 ECCA1GE470 E 47UF 16V ECA67 ECEA1HGE102 E 100UF 50V TANNSFORMER C412 ECCA1GE470 E 47UF 16V ECA67 ECEA1HGE102 E 10UF 50V ECA67 ECEA1HGE102 E 10UF 50V ECA67 ECA1GE470 E 47UF 15V ECA67 ECA		1		,					^	
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L1202 ELEXHR33KA		L1101	ELEXHR22KA	PEAKING COIL	C401	ECEA1HGEO10	Ε	1UF		50V
L1202 ELEXHR33KA PEAKING COIL  L1301 ELEXH100KA PEAKING COIL  L1302 TLUACNB821K PEAKING COIL  L1303 TSK8029 FERRITE CORE  L1303 TSK8029 FERRITE CORE  L1303 TELFA100KB CHIP COIL  L1308 ELEXH151KA PEAKING COIL  T351 TLH85906Z TRANSFORMER  T601 ETF39L86AZ FLYBACK TRANSFORMER  CONTROL  VR584 VR801 EVMEGSA00B13 CONTROL B 1K OHM VR801 EVMF6SA00B23 CONTROL B 2K OHM  VR801 EUW16224KBX C 0.22UF Z 16V  C12 ECUX1C225FW C 2.2UF Z 16V  C13 ECUX1C225FW C 0.1UF Z 50V  C14 ECUX1C225FW C 0.1UF Z 50V  C15 ECUX1H03KBG C 0.01UF K 50V  C202 ECEA1HGE100 E 10UF 50V  C405 ECEA1CGE101 E 10OUF 16V  C406 ECEA1CGE21 E 220UF 25V  C407 ECEA1HGE102 E 100UF 50V  C408 ECEA1HGE102 E 100UF 50V  C409 ECCA1HGE102 E 220UF 35V  C412 ECEA1HGE100 E 10UF 50V  C415 ECUX1H331KBN C 330PF K 50V  C415 ECUX1H331KBN C 330PF K 50V  C416 ECUX1H04ZFX C 0.1UF Z 50V  C13 ECUX1C225FW C 2.2UF Z 16V  C14 ECUX1C224KBX C 0.1UF Z 50V  C15 ECUX1H104ZFX C 0.1UF Z 50V  C16 ECUX1H561KBN C 560PF K 50V  C201 ECQV1H474JM P 0.47UF J 50V  C202 ECEA1HGE100 E 10UF S0V  C202 ECEA1HGE010 E 10UF S0V  C504 ECUX1H103KBG C 0.01UF K 50V  C506 ECUX1H102JCX C 680PF J 50V  C507 ECUX1H103KBG C 0.01UF K 50V  C508 ECUX1H103KBG C 0.01UF K 50V  C509 ECUX1H103KBG C 0.01UF K 50V  C509 ECUX1H103KBG C 0.01UF K 50V		L1102	ELEXHR33KA	PEAKING COIL	C402	ECUX1H103KBG k	С	0.01UF	K	50V
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T351 TLH85906Z TRANSFORMER  T541 ETS22AE119AC TRANSFORMER  T601 ETF39L86AZ FLYBACK TRANSFORMER  TRANSFORMER  TRANSFORMER  CA10 ECEA1HGE100 E 10UF 50V  CA12 ECEA1VGE222 E 220UF 35V  CA13 ECEA1EGE470 E 47UF 25V  CA14 ECUX1H331KBN C 330PF K 50V  CA15 ECYX1H682UCW C 6800PF J 50V  CA16 ECWX1H68AO0B23 CONTROL B 1K 0HM CA17 ECQV1H334UM P 0.33UF J 50V  CAPACITORS  CAPACITORS  CA17 ECQV1H334UM P 0.33UF J 50V  CA18 ECUX1H104ZFX C 0.1UF Z 50V  CA19 ECUX1H104ZFX C 0.1UF Z 50V  CA11 ECUX1C225ZFW C 2.2UF Z 16V  CA12 ECUX1H104ZFX C 0.068UF K 50V  CA13 ECUX1H104ZFX C 0.068UF K 50V  CA14 ECUX1H104ZFX C 0.01UF Z 50V  CA15 ECUX1H104ZFX C 0.01UF Z 50V  CA16 ECUX1H104ZFX C 0.1UF Z 50V  CA17 ECQV1H334UM P 0.33UF J 50V  CA18 ECUX1H104ZFX C 0.068UF K 50V  CA19 ECUX1H104ZFX C 0.01UF Z 50V  CA19 ECUX1H104ZFX C 0.01UF Z 50V  CA14 ECUX1H104ZFX C 0.01UF Z 50V  CA15 ECUX1H104ZFX C 0.01UF Z 50V  CA16 ECUX1H104ZFX C 0.01UF Z 50V  CA17 ECQV1H474JM P 0.47UF J 50V  CA18 ECUX1H103KBG C 0.01UF K 50V  CA19 ECQV1H474JM P 0.47UF J 50V  CA10 ECQV1H474JM P 0.47UF J 50V  CA10 ECQV1H474JM P 0.47UF J 50V  CA10 ECQV1H474JM P 0.47UF J 50V  CA10 ECQV1H474JM P 0.47UF J 50V  CA10 ECQV1H474JM P 0.47UF J 50V  CA10 ECQV1H474JM P 0.47UF J 50V  CA10 ECQV1H474JM P 0.47UF J 50V  CA10 ECQV1H474JM P 0.47UF J 50V  CA10 ECQV1H474JM P 0.47UF J 50V										
T541 ETS22AE119AC TRANSFORMER				l i			E			
↑ T601		T351	TLH85906Z	TRANSFORMER	C409	ECQV1H224JM	Ρ	0.22UF	J	50V
↑ T601		T541	ETS22AE119AC	TRANSFORMER	C410	ECEATHGE 100	E	10UF		50V
TRANSFORMER							F			
CONTROL  VR 584	$\overline{\wedge}$	TROI	1							
CONTROL   CA15   ECYX1H682UCW   C 6800PF   U 50V	لند	. 301	LEGUZUSKI	I NAIST UNIEK			_		v	
VR584 EVMEGSAOOB13 CONTROL B			CONTRO		l l					
VR801   EVMF6SAOOB23   CONTROL B   2K OHM   C418   ECUX1H104ZFX   C   O.1UF   Z   50V   C419   ECUX1H104ZFX   C   O.1UF   Z   50V   C421   ECUX1H104ZFX   C   O.1UF   Z   50V   C421   ECUX1H683KBW   C   O.068UF   K   50V   C498   ECEA1VGE101   E   100UF   35V   C503   ECUX1H103KBG   C   O.01UF   K   50V   C503   ECUX1H103KBG   C   O.01UF   K   50V   C504   ECEA1EGE100   E   10UF   25V   C506   ECUX1H681JCX   C   680PF   J   50V   C506   ECUX1H681JCX   C   680PF   J   50V   C509   ECUX1H103KBG   C   O.01UF   K   50V   C509   ECUX1H103KBG   C   O.01UF			CONTRUL		0415	LUIN INDOZUCW K	_	000077	J	30 <b>v</b>
CAPACITORS  CAPACITORS  CAPACITORS  CA11  ECUX1C225ZFW C 2.2UF Z 16V  C12  ECUX1C224KBX C 0.2UF K 16V  C13  ECUX1H104ZFX C 0.1UF Z 50V  C14  ECUX1C24KBX C 0.2UF K 16V  C1502  ECUX1H103KBG C 0.01UF K 50V  C16  ECUX1H561KBN C 560PF K 50V  C201  ECQV1H474JM P 0.47UF J 50V  C202  ECEA1HGE010 E 10F K 50V  C507  ECUX1H103KBG C 0.01UF K 50V  C506  ECUX1H681JCX C 680PF J 50V  C507  ECUX1H103KBG C 0.01UF K 50V							P			-
CAPACITORS  C1 1		VR801	EVMF6SAOOB23	CONTROL B 2K OHM	C418	ECUX1H1O4ZFX k	С	0.1UF	Z	50 <b>V</b>
CAPACITORS  C1 1					C419	ECUX1H104ZFX k	С	0.1UF	Z	50V
C11 ECUX1C225ZFW C 2.2UF Z 16V C12 ECUX1C224KBX C 0.2UF K 16V C13 ECUX1H104ZFX C 0.1UF Z 50V C14 ECUX1H104ZFX C 0.1UF Z 50V C16 ECUX1H561KBN C 560PF K 50V C201 ECQV1H474JM P 0.47UF J 50V C202 ECEA1HGE010 E 10F K 50V C503 ECUX1H103KBG C 0.01UF K 50V C504 ECEA1EGE100 E 10UF 25V C505 ECUX1H102JCX C 1000PF J 50V C506 ECUX1H681JCX C 680PF J 50V			CAPACITORS				С			
C12	İ					i i			•	
C13										
C14				· · · · · · · · · · · · · · · · · · ·		1	E			
C14			ECUX1H104ZFX	C 0.1UF Z 50V I	C503	ECUX1H103KBG K	0	0.01UF	K	50V
C16	ķ	C14	ECUX1H104ZFX	C 0.1UF Z 50V	C504	ECEA1EGE100	Ε			25V
C506 ECUX1H681JCX C 680PF J 50V C201 ECQV1H474JM P 0.47UF J 50V C507 ECUX1H103KBG C 0.01UF K 50V				l		1	Ç		J	
C2O1 ECQV1H474JM P 0.47UF J 50V C507 ECUX1H103KBG C 0.01UF K 50V						1				
C2O2 ECEA1HGEO10 E 1UF 50V   C507 ECUX1H103KBG C 0.01UF K 50V	k	C201	ECQV1H474JM	P 0.47UF J 50V					-	
					C507	ECUX1H103KBG K	0	0.01UF	K	50V
								2.2UF	Z	

Ref.No.	Part No.		Desc	ription		Π	Ref.No	. Part No.		Description		1
C509	ECUX1H104ZFX	c	0.1UF	Z	50V	T	C703	ECUX1H103KBG	c	0.01UF	K	50V
1 -	ECUX1H104ZFX	c	0.1UF	Z	50V	ı	C704	ECUX1H103KBG	1	0.01UF	K	50V
1 1 -	ECUX1H104ZFX	ř	0.1UF	Z	50V	1	C707	ECUX1H103KBG		0.01UF	ĸ	50V
I I	-	Ĕ				1	1				r.	
	ECUX1H102KBN	۲	1000PF	K	50V	1	C709	ECEA1EGE101	E	100UF	1.4	25V
C514	ECUX1H104ZFX	С	0.1UF	Z	50 <b>V</b>		C711	ECUX1H472KBG	C	4700PF	K	50V
C515	ECEA1CGN100	Ε	10UF		16V		C753.	ECUX1H103KBG	C	0.01UF	K	50V
C516	ECEA1HGE2R2	E	2.2UF		50 <b>V</b>	$\Lambda$	C801	ECQU2A105MVZ	PP	1.OUF	M	250V
C517	ECEA1CGE221	E	220UF		16V	Δ	C802	ECKDRS102KB	ic	1000PF	K	
1 1	ECEA1EGE470	E	47UF		25V		C803	ECKDRS102KB	c	1000PF	K	
1 1	ECEAOJGE471	Ē	470UF		6.3V		C805	ECQU2A105MVZ	PP		M	250V
0321	LCLACOGL471	-	47001		0.50	1	0000	ECQUEA 103MV2	Ϊ'	1.001	171	2501
C526	ECEA1HGE3R3	E	3.3UF		50 <b>V</b>		C814	TAC7A2G105JC	PP	1UF	J	400V
						į			F F			
	1	E	3.3UF		50V		C815	ECQE4104JF	_	0.1UF	J	400V
		E	470UF		16V		C819	ECKD3A101KBP	C	100PF	K	1KV
		Ε	100UF		35V		C820	ECUX1H223KBX	С	0.022UF	K	50V
C551	ECEA1VGE470	Ε	47UF		35V	1	C821	ECQE2473KF	P	0.047UF	K	200V
						1						
C552	ECKD2H332KB5	С	3300PF	K	500V	1	C822	ECUX1H222KBN	С	2200PF	K	50V
C555		c	560PF	J	ЗKV		C823	ECEA1HGE4R7	E	4.7UF		50V
		PP	4700PF	H	1.5KV	1	C824	ECEA1HGE100	F	10UF		50V
	1.7.4	PP	0.27UF	ı,	400V	1	C825	ECEATHGE TOO	E	3.3UF		50V
							1		C		V	
C562	TAC7A2G105JC	PP	1UF	J	400V		C827	ECUX1H681KBN	~	680PF	K	50 <b>V</b>
					400::	1	0000		_	, <del>-</del> <del>-</del>		<b>-</b> 0
C563		PP	0.24UF	J	400V		C828	ECEA1HGE470	Ε	47UF		50V
		PP	0.24UF	J	400V	1.	C829	ECEA1VGE221	Ε	220UF		35 <b>V</b>
		С	0.047UF	Z <sup>-</sup>	50V		C832	ECKDRS102KB	C	1000PF	K	
C567	ECUX1H473ZFM	c	0.047UF	Z	50V	Δ	C834	ECKDRS102KB	c	1000PF	K	
C570		c	820PF	J	2KV		C839	ECEAOJGE331	E	330UF		6.3V
1 1				_								
C571	ECQF6272JZ	PP	2700PF	J	600V	ŀ	C840	ECEA1HGE4R7	E	4.7UF		50V
		F F			100V							
	ECQE1335KF		3.3UF	K			C842	ECKD3D151JBP	C	150PF	J	2KV
C573	I .	C	1000PF	K	500V		C844	ECA2CGE221W	E	220UF		160V
C574		C	3300PF	K	500V	j	C853	ECEA1EGE100	E	10UF		25V
C576	ECUX1H103KBG	C	0.01UF	K	50V	1	C854	ECQV1H224JM	Р	Q.22UF	J	50V
						1						
C577	ECUX1H103KBG	C	0.01UF	K	50V		C861	ECOS2EB681CA	E	680UF		250V
C579	ECUX1H222ZFN	C	2200PF	Z	50V		C862	ECA2CGE221W	Ε	220UF		160V
C580	ECEA1CGE470	Ε	47UF		16V		C863	ECEA1HGE102	Ε	1000UF		50V
	ECQV1H684JM	P	0.68UF	J	50V	l	C864	ECEA1EGE332	E	3300UF		25V
1		Ċ	0.01UF	ĸ	50V		C865	ECEA1CGE102	Ē	1000UF		16V
0332	LCOXIIIIOSKBU	_	0.0101	- '	301		0003	LOLATOGLIOZ	_	100001		101
C583	ECUX1C105ZFW	_	4 005	7	16V	i	Ċ866	ECEA1CGE101	E	100UF		101/
		C	1.0UF	Z	_			4	1			16V
		С	0.01UF	K	50V	l	C870	ECEA1HGE101	Ε	100UF		50V
		С	1000PF	K	50V	İ	C871	ECEA1EGE221	E	220UF		25V
C6O1	ECEA2CGE2R2	E	2.2UF		160V		C873	ECUX1H104ZFX	C	0.1UF	Z	50V
C602	ECQE2474JF	P	0.47UF	J	200V		C874	ECUX1H104ZFX	c	0.1UF	Z	50V
сеоз	ECUX1H222KBN	c	2200PF	K	50 <b>V</b>		C876	ECEA1HGE221	E	220UF		50V
l l		Ē	22UF		100V		C877	ECUX1H104ZFX	c	0.1UF	Z	50V
i			0.047UF	M	1KV		C879	ECEA1AGE101	E	100UF	_	10V
1		E	1UF	,•1	50V		C890	TACCZ335P630	P	3.3UF	K	630V
								1	Г			
C607	ECUX1H102JCX	C	1000PF	J	50 <b>V</b>	1	C892	ECUX1H104ZFX	С	0.1UF	Z	50V
	L	L				l			L			
		С	1000PF	K	500V		1	ECQE6473KF	Ρ	0.047UF	K	600V
		c	6800PF	K	50 <b>V</b>			ECUX1H22OJCN	C	22PF	J	50V
	ECEA2EGE100	E	10UF		250V		C902	ECEA1AGE101	E	100UF		10V
C612		E	10UF		25V		C903	ECUX1H103KBG	c	0.01UF	K	50V
		Ē	47UF		25V	I	1	ECEA1HGEO10	E	1UF	•	50V
		-							ſ			
C66 1	ECUX1H102JCX	c	1000PF	J	50V		C906	ECUX1H103KBG	C	0.01UF	K	50V
		c	2700PF	ĸ	500V	1	1	1	C	220PF		50V
		1				ı	1	1	1		K	
		c	120PF	J	50V	ł .	i	ECUX1H150JCN		15PF	J	50V
		C	1000PF	ل	50V				С	15PF	Ú	50V
C667	ECUX1H221JCG	C	220PF	J	50V	İ	C910	ECUX1H221KBN	С	220PF	K	50V
						.			l			
C67 1	ECUX1C105ZFW	c	1.OUF	Z	16V		C911	ECUX1H221KBN	С	220PF	K	50V
		E	4.7UF		50V			ECUX1H333KBX		0.033UF	K	50V
		Ē	47UF		35V			ECEA1EGE100	E	10UF	•	25V
		E	12UF		63V			ECEA1CGE470	E	47UF		16V
!	1	E									ν	
C00 1	ECEA2DGE101	IC.	100UF		200V		1003	ECUX1H103KBG	٢	0.01UF	K	50V
	E 0		0.041:-		F 01.		0400:	FOLIVALLA		0 04=	1.0	F 01/
1	ECUX1H103KBG		0.01UF	K	50V			ECUX1H103KBG		0.01UF	K	50V
C702	ECUX1H103KBG	<u>c</u>	0.01UF	K	50V		C1005	ECQV1H105JM	P	1.OUF	J	50V

Ref.No.	Part No.	Desc	riptio	n	Ref.No.	. Part No.		Description	o <b>n</b>
C1006	ECUX1H111JC	C 110PF	J	50V	J014	ERDS2TCO	С	O OHM	1/4W
C1008	ECEA2CGE22O	E 22UF		160V	J015	ERDS2TCO	С	O DHM	1/4W
C1009	ECUX1H103KBG	C 0.01UF	Κ	50 <b>V</b>	U016	ERDS2TCO	C	O OHM	1/4W
C1010	ECKD2H102KB5	C 1000PF	K	500V	J018	ERDS2TCO	00000	O OHM	1/4W
C1013	ECUX1H560JCG	C 56PF	J	50V	J022	ERDS2TCO	С	O DHM	1/4W
C1030	ECUX1H22OJCN	C 22PF	J	50V	J023	ERDS2TCO	С	O DHM	1/4W
C1101	ECEA1EGE100	E 10UF		25V	J025	ERDS2TCO	00000	O OHM	1/4W
C1102	ECEA1CGE470	E 47UF		16V	J102	ERDS2TCO	c	O DHM	1/4W
C1103	ECUX1H103KBG	C 0.01UF	K	50V	J103	ERDS2TCO	c	O DHM	1/4W
C1104		C 0.01UF	K	50 <b>V</b>	J104	ERDS2TCO	С	O DHM	1/4W
C1105	ECQV1H105JM	P 1.OUF	J	50V	J105	ERDS2TCO	c	O DHM	1/4W
C1106	ECUX1H111JC	C 110PF	J	50 <b>V</b>	J 106	ERDS2TCO	00000	O DHM	1/4W
C1109	ECUX1H103KBG	C 0.01UF	K	50V	J114	ERDS2TCO	c	O DHM	1/4W
C1110	ECKD2H102KB5	C 1000PF	K	500V	J201	ERD25TCO	С	ODHM	1/4W
1	ECUX1H560JCG	C 56PF	J	50 <b>V</b>	J202	ERD25TCO	С	O DHM	1/4W
C1130	ECUX1H22OJCN	C 22PF	J	50V	J203	ERD25TCO	c	O OHM	1/4W
C1201	ECEA1EGE100	E 10UF		25V		ERD25TCO	c	O DHM	1/4W
	ECEA1CGE470	E 47UF		16V	J207	ERD25TCO	c	O OHM	1/4W
1 +	ECUX1H103KBG	C 0.01UF	K	50V	J208	ERD25TCO	00000	O OHM	1/4W
I	ECUX1H103KBG	C 0.01UF	K	50V	J209	ERD25TCO	С	OOHM	1/4W
C1205	ECQV1H105JM	P 1.OUF	J	50 <b>V</b>	J210	ERD25TCO	c	O DHM	1/4W
	1	C 120PF	J	50V	U211	ERD25TCO	c	O OHM	1/4W
	ECEA2AGE2R2	E 2.2UF		100V	J217	ERD25TCO	c	O OHM	1/4W
	ECEA2AGE2R2	E 2.2UF		100V	J218	ERD25TCO	00000	O OHM	1/4W
C1209	ECUX1H103KBG	C 0.01UF	K	50V	J221	ERD25TCO	С	O OHM	1/4W
C1210	ECKD2H1O2KB5	C 1000PF	ĸ	500V	J222	ERD25TCO	c	O OHM	1/4W
	ECUX1H560JCG	C 56PF	Ĵ	50V	1 :	ERD25TCO	00000	O DHM	1/4W
		C 22PF	Ĵ	50V		ERD25TCO	C	O OHM	1/4W
	ECEA1HGE100	E 10UF	-	50V	J225	ERD25TCO	c	O DHM	1/4W
	ECUX1H103KBG	C 0.01UF	K	50 <b>V</b>	J226	ERD25TCO	c	O OHM	1/4W
C1303	ECEA1CGE101	E 100UF		16V	J227	ERD25TCO	c	O DHM	1/4W
1	ECEA1CGE102	E 1000UF		16V	J228	ERD25TCO	c	O OHM	1/4W
		C 0.1UF	Z	50V	J229	ERD25TCO	c	O OHM	1/4W
	ECUX1C105ZFW	C 1.OUF	z	16V	J232	ERD25TCO	00000	O OHM	1/4W
	ECUX1H100DCN	C 10PF	D	50V	J235	ERD25TCO	С	O DHM	1/4W
C1309	TACCG102P200	C 1000PF		200V	J236	ERD25TCO	С	о онм	1/4W
-	ECEA2CGE22O	E 22UF		160V		ERD25TCO	00000	O OHM	1/4W
1	1	C 0.01UF	K	50V	J239	ERD25TCO	c	O OHM	1/4W
1	ECUX1C105ZFW	C 1.OUF	Z	16V	J240	ERD25TCO	C	O OHM	1/4W
<b>I</b>	ECEA1CGE470	E 47UF		16V	J242	ERD25TCO	С	O OHM	1/4W
C1315	ECUX1H103KBG	C 0.01UF	K	50V	J243	ERD25TCO	c	O DHM	1/4W
	ECUX1H103KBG	C 0.01UF	K	50 <b>V</b>	1 (	ERD25TCO	c	O OHM	1/4W
	ECUX1H103KBG		ĸ	50 <b>V</b>		ERD25TCO	c	O OHM	1/4W
	ECUX1H333KBX	C 0.033UF	K	50V	1 1	ERD25TCO	00000	O OHM	1/4W
	ECUX1H22OJCN	C 22PF	J	50V	J247	ERD25TCO	c	O OHM	1/4W
C1 322	ECUX1H22OJCN	C 22PF	J	50V	J249	ERD25TCO	С	O OHM	1/4W
		E 100UF	-	10V	1	ERD25TCO	С	O DHM	1/4W
	ECUX 1H22OJCN	C 22PF	J	50V		ERD25TCO	C	O DHM	1/4W
		E 100UF	-	16V		ERD25TCO	00000	O DHM	1/4W
		C 0.068UF	K	50V	1	ERD25TCO	c	O OHM	1/4W
C1 327	ECEA1HGE100	E 10UF		50V	J254	ERD25TCO	c	O DHM	1/4W
	ECUX1H101JCG		J	50V	1 1	ERD25TCO	Ē	OOHM	1/4W
	ECUX1H103KBG		ĸ	50V		ERD25TCO	c	O OHM	1/4W
i		C 1.0UF	Z	16V	1 1	ERD25TCO	c	OOHM	1/4W
1	ECUX1H682KBG		ĸ	50V	1 1	ERD25TCO	00000	O DHM	1/4W
	RESISTORS				J306	ERD25TCO	c	O OHM	1/4W
	ALSISIONS					ERD25TCO	00000	O OHM	1/4W
U1 1	ERJ6GEYOROO	M O DHM		1/10W	i	ERD25TCO	c	O OHM	1/4W
		C 0 0HM		1/4W		ERD25TCO	c	O OHM	1/4W
i -	ERDS2TCO	с орнм		1/4W	· 1	ERD25TCO	c	OOHM	1/4W
JO 11	ERDS2TCO	с оонм		1/4W					,
JO 12	ERDS2TCO	с о онм		1/4W		ERD25TCO	С	O OHM	1/4W
					U318	ERD25TCO	c	O OHM	1/4W

1922   ERDZSTCO   C	Ref.No.	Part No.		Description	n	Ref.No	. Part No.		Descri	ption
J324   ENDSTOO   C	J321	ERD25TCO	c	O OHM	1/4W	J519	ERJ8GCYOROO	М	O DHM	1/8W
J329   ERD2STCO	1 1	l .	c (	O OHM	1/4W	J520	ERJ8GCYOROO	М	O DHM	1/8W
J329   ERD2STCO			c (	O DHM	1/4W	J522	ERJBGCYOROO	М	O DHM	1/8W
J329   ERD2STCO			Ġ (							
J329   ERD2STCO			Č i							· · · · · · · · · · · · · · · · · · ·
J330   RRD2TCO   C   O DHM	0323	LINDZOTOO	ľ	0 0,,	., ., .	0024	ENGOGOTONOG	1	0 0	1,011
J330   RRD2TCO   C   O DHM	1329	ERD25TCO	k .	O DHM	1/4W	U525	ERJ8GCYOROO	M	ODHM	1/8W
1335						1		- 1	-	* .
1335	1 1							1		
1335	1 1									* .
1335	1 1	-						[		· .
J336	0334	ERD251CO	`		1/4W	0529	ERUBGCTUROU	١,,	O Univi	1/ <b>0W</b>
J336	1225	EBDOETCO	h .	_ ∩⊔M	4 / AW	1530	ED. IRGCVODOO	M	O OHM	1/9W
Ja40				_		1		1		
Ja40								1		
Ja40			<u> </u>		· · · · · · · · · · · · · · · · · · ·			1		
1401	1						l .	1		
JACQ	0340	ERD251CO	ic (	O UHM	1/4W	0534	ERUSGCYOROO	IVI	OUHM	1/8W
JACQ			L.	0.001114	4/404	1505	ED 1000V0D00	L.	0.01114	4 /04
JACO	1 1			_		1	1			
J406	1		· ·	-		1			-	
J406	1				· · .	1	1			
J407	1 1	ľ	1					Γ.		
JAOB   ERJGECYOROD   N	J406	ERJ6GEYOROO	M (	MHO C	1/10W	J539	ERJ8GCYOROO	М	O DHM	1/8W
JAOB   ERJGECYOROD   N								L	_	
JA10			E .					1	-	•
Ja10			1					1.		
Jai	1 1		1	_		1				
U412	U410	ERJ6GEYOROO	M (	MHO C	1/10W	U543		М	O OHM	1/8W
June   Serusage vortion   June   Ju	J411	ERJ6GEYOROO	M (	MHO C	1/10W	J544	ERJ8GCYOROO	M	O OHM	1/8W
June   Serusage vortion   June   Ju										
J415	J412	ERJ6GEYOROO	įΜ ∢	MHO C		J545	ERJ8GCYOROO	М	O OHM	
Jaile	J414	ERJ6GEYOROO	Mr ∢	MHO C		J546	ERJ8GCYOROO	M	O DHM	1/8W
J418	J415	ERJ6GEYOROO	m (	MHO C	1/10W	J547	ERJ8GCYOROO	М	O OHM	1/8W
Ja19	J416	ERJ6GEYOROO	M (	MHO C	1/10W	J548	ERJ8GCYOROO	М	O DHM	1/8W
Ja22   ERJGEYOROO   M   O OHM   1/10W   J551   ERJBGCYOROO   M   O OHM   1/8W   J424   ERJGEYOROO   M   O OHM   1/10W   J552   ERJBGCYOROO   M   O OHM   1/8W   J425   ERJBGCYOROO   M   O OHM   1/8W   J553   ERJBGCYOROO   M   O OHM   1/8W   J554   ERJBGCYOROO   M   O OHM   1/8W   J554   ERJBGCYOROO   M   O OHM   1/8W   J554   ERJBGCYOROO   M   O OHM   1/8W   J554   ERJBGCYOROO   M   O OHM   1/8W   J555   ERJBGCYOROO   M   O OHM   1/8W   J556   ERJBGCYOROO   M   O OHM   1/8W   J557   ERJBGCYOROO   M   O OHM   1/8W   J557   ERJBGCYOROO   M   O OHM   1/8W   J558   ERJBGCYOROO   M   O OHM   1/8W   J559   ERJBGCYOROO   M   O OHM   1/8W   J559   ERJBGCYOROO   M   O OHM   1/8W   J559   ERJBGCYOROO   M   O OHM   1/8W   J559   ERJBGCYOROO   M   O OHM   1/8W   J559   ERJBGCYOROO   M   O OHM   1/8W   J559   ERJBGCYOROO   M   O OHM   1/8W   J559   ERJBGCYOROO   M   O OHM   1/8W   J559   ERJBGCYOROO   M   O OHM   1/8W   J559   ERJBGCYOROO   M   O OHM   1/8W   J559   ERJBGCYOROO   M   O OHM   1/8W   J561   ERJBGCYOROO   M   O OHM   1/8W   J561   ERJBGCYOROO   M   O OHM   1/8W   J562   ERJBGCYOROO   M   O OHM   1/8W   J563   ERJBGCYOROO   M   O OHM   1/8W   J564   ERJBGCYOROO   M   O OHM   1/8W   J565   ERJBGCYOROO   M   O OHM   1/8W   J564   ERJBGCYOROO   M   O OHM   1/8W   J565   ERJBGCYOROO   M   O OHM   1/8W   J569   ERJBGCYOROO   M   O OHM   1/8W   J569   ERJBGCYOROO   M   O OHM   1/8W   J573   ERJBGCYOROO   M   O OHM   1/8W   J573   ERJBGCYOROO   M   O OHM   1/8W   J570   ERJBGCYOROO   M   O OHM   1/8W   J570   ERJBGCYOROO   M   O OHM   1/8W   J570   ERJBGCYOROO   M   O OHM   1/8W   J570   ERJBGCYOROO   M   O OHM   1/8W   J570   ERJBGCYOROO   M   O OHM   1/8W   J570   ERJBGCYOROO   M   O OHM   1/8W   J570   ERJBGCYOROO   M   O OHM   1/8W   J570   ERJBGCYOROO   M   O OHM   1/8W   J570   ERJBGCYOROO   M   O OHM   1/8W   J570   ERJBGCYOROO   M   O OHM   1/8W   J570   ERJBGCYOROO   M   O OHM   1/8W   J570   ERJBGCYOROO   M   O OHM   1/8W   J570   ERJBGCYOROO   M   O OHM   1/8W   J570   ERJBGCYOROO   M   O OHM   1/8W   J570	J418	ERJ6GEYOROO	M (	O DHM	1/10W	J549	ERJ8GCYOROO	М	O DHM	1/8W
Ja22   ERJGEYOROO   M   O OHM   1/10W   J551   ERJBGCYOROO   M   O OHM   1/8W   J424   ERJGEYOROO   M   O OHM   1/10W   J552   ERJBGCYOROO   M   O OHM   1/8W   J425   ERJBGCYOROO   M   O OHM   1/8W   J553   ERJBGCYOROO   M   O OHM   1/8W   J554   ERJBGCYOROO   M   O OHM   1/8W   J554   ERJBGCYOROO   M   O OHM   1/8W   J554   ERJBGCYOROO   M   O OHM   1/8W   J554   ERJBGCYOROO   M   O OHM   1/8W   J555   ERJBGCYOROO   M   O OHM   1/8W   J556   ERJBGCYOROO   M   O OHM   1/8W   J557   ERJBGCYOROO   M   O OHM   1/8W   J557   ERJBGCYOROO   M   O OHM   1/8W   J558   ERJBGCYOROO   M   O OHM   1/8W   J559   ERJBGCYOROO   M   O OHM   1/8W   J559   ERJBGCYOROO   M   O OHM   1/8W   J559   ERJBGCYOROO   M   O OHM   1/8W   J559   ERJBGCYOROO   M   O OHM   1/8W   J559   ERJBGCYOROO   M   O OHM   1/8W   J559   ERJBGCYOROO   M   O OHM   1/8W   J559   ERJBGCYOROO   M   O OHM   1/8W   J559   ERJBGCYOROO   M   O OHM   1/8W   J559   ERJBGCYOROO   M   O OHM   1/8W   J559   ERJBGCYOROO   M   O OHM   1/8W   J561   ERJBGCYOROO   M   O OHM   1/8W   J561   ERJBGCYOROO   M   O OHM   1/8W   J562   ERJBGCYOROO   M   O OHM   1/8W   J563   ERJBGCYOROO   M   O OHM   1/8W   J564   ERJBGCYOROO   M   O OHM   1/8W   J565   ERJBGCYOROO   M   O OHM   1/8W   J564   ERJBGCYOROO   M   O OHM   1/8W   J565   ERJBGCYOROO   M   O OHM   1/8W   J569   ERJBGCYOROO   M   O OHM   1/8W   J569   ERJBGCYOROO   M   O OHM   1/8W   J573   ERJBGCYOROO   M   O OHM   1/8W   J573   ERJBGCYOROO   M   O OHM   1/8W   J570   ERJBGCYOROO   M   O OHM   1/8W   J570   ERJBGCYOROO   M   O OHM   1/8W   J570   ERJBGCYOROO   M   O OHM   1/8W   J570   ERJBGCYOROO   M   O OHM   1/8W   J570   ERJBGCYOROO   M   O OHM   1/8W   J570   ERJBGCYOROO   M   O OHM   1/8W   J570   ERJBGCYOROO   M   O OHM   1/8W   J570   ERJBGCYOROO   M   O OHM   1/8W   J570   ERJBGCYOROO   M   O OHM   1/8W   J570   ERJBGCYOROO   M   O OHM   1/8W   J570   ERJBGCYOROO   M   O OHM   1/8W   J570   ERJBGCYOROO   M   O OHM   1/8W   J570   ERJBGCYOROO   M   O OHM   1/8W   J570   ERJBGCYOROO   M   O OHM   1/8W   J570					·					
Ja22   ERJGEFVOROO M O OHM 1/10W   J551   ERJSGCYOROO M O OHM 1/8W   J425   ERJGEFVOROO M O OHM 1/10W   J552   ERJSGCYOROO M O OHM 1/8W   J426   ERJGEFVOROO M O OHM 1/10W   J553   ERJSGCYOROO M O OHM 1/8W   J426   ERJSGEFVOROO M O OHM 1/8W   J553   ERJSGCYOROO M O OHM 1/8W   J554   ERJSGCYOROO M O OHM 1/8W   J554   ERJSGCYOROO M O OHM 1/8W   J554   ERJSGCYOROO M O OHM 1/8W   J554   ERJSGCYOROO M O OHM 1/8W   J554   ERJSGCYOROO M O OHM 1/8W   J554   ERJSGCYOROO M O OHM 1/8W   J556   ERJSGCYOROO M O OHM 1/8W   J557   ERJSGCYOROO M O OHM 1/8W   J558   ERJSGCYOROO M O OHM 1/8W   J559   ERJSGCYOROO M O OHM 1/8W   J559   ERJSGCYOROO M O OHM 1/8W   J559   ERJSGCYOROO M O OHM 1/8W   J559   ERJSGCYOROO M O OHM 1/8W   J559   ERJSGCYOROO M O OHM 1/8W   J559   ERJSGCYOROO M O OHM 1/8W   J559   ERJSGCYOROO M O OHM 1/8W   J559   ERJSGCYOROO M O OHM 1/8W   J559   ERJSGCYOROO M O OHM 1/8W   J550   ERJSGCYOROO M O OHM 1/8W   J561   ERJSGCYOROO M O OHM 1/8W   J561   ERJSGCYOROO M O OHM 1/8W   J562   ERJSGCYOROO M O OHM 1/8W   J563   ERJSGCYOROO M O OHM 1/8W   J563   ERJSGCYOROO M O OHM 1/8W   J564   ERJSGCYOROO M O OHM 1/8W   J565   ERJSGCYOROO M O OHM 1/8W   J565   ERJSGCYOROO M O OHM 1/8W   J566   ERJSGCYOROO M O OHM 1/8W   J567   ERJSGCYOROO M O OHM 1/8W   J568   ERJSGCYOROO M O OHM 1/8W   J569   ERJSGCYOROO M O OHM 1/8W   J669   ERJSGCYOROO M O OHM 1/8W   J669   ERJSGCYOROO M O OHM 1/8W	J419	ERJ6GEYOROO	m o	MHO C	1/10W	J550	ERJ8GCYOROO	М	O OHM	1/8W
J425			M (	O OHM	1/10W	J551	ERJ8GCYOROO	М	O OHM	1/8W
Ja25	J424	ERJ6GEYOROO	M (	O OHM	1/10W	J552	ERJ8GCYOROO	М	O OHM	1/8W
U426			M (			U553	ERJ8GCYOROO	М	O OHM	1/8W
J429	l i		[				1	1		• .
U431				-	·					
U431	J429	ERJ6GEYOROO	M (	O OHM	1/10W	J555	ERJ8GCYOROO	м	O DHM	1/8W
U432			M (	O OHM		J556	ERJ8GCYOROO	М	O DHM	1/8W
J434				-	1/10W		FRJ8GCYOROO	м		
J435			ſ							
J437   ERJ6GEYOROO   M   O OHM   1/10W   J560   ERJ8GCYOROO   M   O OHM   1/8W   J441   ERJ6GEYOROO   M   O OHM   1/10W   J561   ERJ8GCYOROO   M   O OHM   1/8W   J562   ERJ8GCYOROO   M   O OHM   1/8W   J563   ERJ8GCYOROO   M   O OHM   1/8W   J563   ERJ8GCYOROO   M   O OHM   1/8W   J565   ERJ8GCYOROO   M   O OHM   1/8W   J565   ERJ8GCYOROO   M   O OHM   1/8W   J565   ERJ8GCYOROO   M   O OHM   1/8W   J565   ERJ8GCYOROO   M   O OHM   1/8W   J565   ERJ8GCYOROO   M   O OHM   1/8W   J565   ERJ8GCYOROO   M   O OHM   1/8W   J565   ERJ8GCYOROO   M   O OHM   1/8W   J565   ERJ8GCYOROO   M   O OHM   1/8W   J566   ERJ8GCYOROO   M   O OHM   1/8W   J569   ERJ8GCYOROO   M   O OHM   1/8W   J569   ERJ8GCYOROO   M   O OHM   1/8W   J569   ERJ8GCYOROO   M   O OHM   1/8W   J569   ERJ8GCYOROO   M   O OHM   1/8W   J572   ERJ8GCYOROO   M   O OHM   1/8W   J573   ERJ8GCYOROO   M   O OHM   1/8W   J573   ERJ8GCYOROO   M   O OHM   1/8W   J509   ERJ8GCYOROO   M   O OHM   1/8W   J500   ERJ8GCYOROO   M   O OHM   1/8W   J500   ERJ8GCYOROO   M   O OHM   1/8W   J1301   ERD25TCO   C   O OHM   1/4W   J510   ERJ8GCYOROO   M   O OHM   1/8W   L1001   ERD25TCO   C   O OHM   1/4W   J513   ERJ8GCYOROO   M   O OHM   1/8W   L1003   ERJ8GCYOROO   M   O OHM   1/8W   J513   ERJ8GCYOROO   M   O OHM   1/8W   L1201   ERD25TCO   C   O OHM   1/4W   J513   ERJ8GCYOROO   M   O OHM   1/8W   L1201   ERD25TCO   C   O OHM   1/4W   J515   ERJ8GCYOROO   M   O OHM   1/8W   L1201   ERD25TCO   C   O OHM   1/4W   J515   ERJ8GCYOROO   M   O OHM   1/8W   L1201   ERD25TCO   C   O OHM   1/4W   J515   ERJ8GCYOROO   M   O OHM   1/8W   L1201   ERD25TCO   M   O OHM   1/8W   L1201   ERD25TCO   M   O OHM   1/8W   L1201   ERD25TCO   M   O OHM   1/8W   L1201   ERD25TCO   M   O OHM   1/4W   J515   ERJ8GCYOROO   M   O OHM   1/8W   L1201   ERD25TCO   M   O OHM   1/4W   J515   ERJ8GCYOROO   M   O OHM   1/8W   L1201   ERD25TCO   M   O OHM   1/4W   J515   ERJ8GCYOROO   M   O OHM   1/8W   L1201   ERD25TCO   M   O OHM   1/4W   J515   ERJ8GCYOROO   M   O OHM   1/8W   L1201   ERD25TCO   M   O OH								1		* .
J440	0 400	L ROOGE TOROG	, '	3 37 11.41	1, 10	0000	2,,0000,01,01	[	0 011111	,,
J440	J437	ERJ6GEYOROO	m (	OHM C	1/10W	J560	ERJ8GCYOROO	М	O OHM	1/8W
J441	1	l .								
J442	_	I .	l			1	1			
J501   ERUBGCYOROO   M   O OHM   1/8W   J565   ERJBGCYOROO   M   O OHM   1/8W   J502   ERJBGCYOROO   M   O OHM   1/8W   J503   ERJBGCYOROO   M   O OHM   1/8W   J568   ERJBGCYOROO   M   O OHM   1/8W   J569   ERJBGCYOROO   M   O OHM   1/8W   J504   ERJBGCYOROO   M   O OHM   1/8W   J569   ERJBGCYOROO   M   O OHM   1/8W   J572   ERJBGCYOROO   M   O OHM   1/8W   J573   ERJBGCYOROO   M   O OHM   1/8W   J573   ERJBGCYOROO   M   O OHM   1/8W   J573   ERJBGCYOROO   M   O OHM   1/8W   J573   ERJBGCYOROO   M   O OHM   1/8W   J1301   ERDS2TCO   C   O OHM   1/4W   J509   ERJBGCYOROO   M   O OHM   1/8W   J1301   ERDS2TCO   C   O OHM   1/4W   J510   ERJBGCYOROO   M   O OHM   1/8W   J1301   ERDS2TCO   C   O OHM   1/4W   J511   ERJBGCYOROO   M   O OHM   1/8W   L1003   ERJBGCYOROO   M   O OHM   1/8W   L1003   ERJBGCYOROO   M   O OHM   1/4W   J512   ERJBGCYOROO   M   O OHM   1/8W   L1103   ERJBGCYOROO   M   O OHM   1/4W   J513   ERJBGCYOROO   M   O OHM   1/8W   L1103   ERJBGCYOROO   M   O OHM   1/4W   J514   ERJBGCYOROO   M   O OHM   1/8W   L1201   ERJS2TCO   C   O OHM   1/4W   J515   ERJBGCYOROO   M   O OHM   1/8W   L1203   ERJBGCYOROO   M   O OHM   1/8W   J515   ERJBGCYOROO   M   O OHM   1/8W   L1203   ERJBGCYOROO   M   O OHM   1/8W   J516   ERJBGCYOROO   M   O OHM   1/8W   R11   ERJGENF1002   M   10K OHM   F   1/10W   J516   ERJBGCYOROO   M   O OHM   1/8W   R12   ERJGENF4703   M   470K OHM   F   1/10W   J517   ERJBGCYOROO   M   O OHM   1/8W   R13   ERJGENF1802   M   18K OHM   F   1/10W   J517   ERJBGCYOROO   M   O OHM   1/8W   R13   ERJGENF1802   M   18K OHM   F   1/10W   J517   ERJBGCYOROO   M   O OHM   1/8W   R13   ERJGENF1802   M   18K OHM   F   1/10W   J517   ERJBGCYOROO   M   O OHM   1/8W   R13   ERJGENF1802   M   18K OHM   F   1/10W   J517   ERJBGCYOROO   M   O OHM   1/8W   R13   ERJGENF1802   M   18K OHM   F   1/10W   J517   ERJBGCYOROO   M   O OHM   1/8W   R13   ERJGENF1802   M   18K OHM   F   1/10W   J517   ERJBGCYOROO   M   O OHM   1/8W   R13   ERJGENF1802   M   18K OHM   F   1/10W   J517   ERJBGCYOROO   M   O OHM		Į.					1	1		
J502   ERJ8GCYOROO   M   O OHM   1/8W   J567   ERJ8GCYOROO   M   O OHM   1/8W   J568   ERJ8GCYOROO   M   O OHM   1/8W   J569   ERJ8GCYOROO   M   O OHM   1/8W   J569   ERJ8GCYOROO   M   O OHM   1/8W   J505   ERJ8GCYOROO   M   O OHM   1/8W   J506   ERJ8GCYOROO   M   O OHM   1/8W   J506   ERJ8GCYOROO   M   O OHM   1/8W   J573   ERJ8GCYOROO   M   O OHM   1/8W   J573   ERJ8GCYOROO   M   O OHM   1/8W   J508   ERJ8GCYOROO   M   O OHM   1/8W   J508   ERJ8GCYOROO   M   O OHM   1/8W   J1301   ERD25TCO   C   O OHM   1/4W   J509   ERJ8GCYOROO   M   O OHM   1/8W   L1001   ERD52TCO   C   O OHM   1/4W   J510   ERJ8GCYOROO   M   O OHM   1/8W   L1003   ERJ8GCYOROO   M   O OHM   1/8W   L1103   ERJ8GCYOROO   M   O OHM   1/8W   L1103   ERJ8GCYOROO   M   O OHM   1/4W   J513   ERJ8GCYOROO   M   O OHM   1/8W   L1103   ERJ8GCYOROO   M   O OHM   1/4W   J513   ERJ8GCYOROO   M   O OHM   1/8W   L1201   ERD52TCO   C   O OHM   1/4W   J514   ERJ8GCYOROO   M   O OHM   1/8W   L1203   ERJ8GCYOROO   M   O OHM   1/8W   J515   ERJ8GCYOROO   M   O OHM   1/8W   L1203   ERJ8GCYOROO   M   O OHM   1/8W   J515   ERJ8GCYOROO   M   O OHM   1/8W   R11   ERJ6ENF1002   M   10K OHM   F   1/10W   J516   ERJ8GCYOROO   M   O OHM   1/8W   R12   ERJ6ENF1002   M   18K OHM   F   1/10W   J517   ERJ8GCYOROO   M   O OHM   1/8W   R13   ERJ6ENF1802   M   18K OHM   F   1/10W   J517   ERJ8GCYOROO   M   O OHM   1/8W   R13   ERJ6ENF1802   M   18K OHM   F   1/10W   J517   ERJ8GCYOROO   M   O OHM   1/8W   R13   ERJ6ENF1802   M   18K OHM   F   1/10W   J517   ERJ8GCYOROO   M   O OHM   1/8W   R13   ERJ6ENF1802   M   18K OHM   F   1/10W   J517   ERJ8GCYOROO   M   O OHM   1/8W   R13   ERJ6ENF1802   M   18K OHM   F   1/10W   J517   ERJ8GCYOROO   M   O OHM   1/8W   R13   ERJ6ENF1802   M   18K OHM   F   1/10W   J517   ERJ8GCYOROO   M   O OHM   1/8W   R13   ERJ6ENF1802   M   18K OHM   F   1/10W   J517   ERJ8GCYOROO   M   O OHM   1/8W   R13   ERJ6ENF1802   M   18K OHM   F   1/10W   J517   ERJ8GCYOROO   M   O OHM   1/8W   R13   ERJ6ENF1802   M   18K OHM   F   1/10W   J517   ERJ8GCYOROO		l.				1	1			
J503			ļ., <b>`</b>	J 0, ,,,	., -, -,	0000		1	3 3/1//	., 0
J503	J502	ERU8GCYOROO	M (	O OHM	1/8W	J567	ERU8GCYOROO	М	O DHM	1/8W
J504	· •					1	1			· · · · · · · · · · · · · · · · · · ·
J505						<b>I</b>	1			
J506			1			<b>I</b>	1			
J507		1	1			<b>I</b>		1		
J508	7500	LAGGGGTOROG	``	J - C. #**	., 5"	5375		1"	Ç 3/ II-l	1, 5 **
J508	J507	ERJ8GCYOROO	M (	D DHM	1/8W	J580	ERJ8GCYOROO	М	O DHM	1/8W
J509	1					1				
J510	<b>I</b>						l .			
J511   ERUBGCYOROO   M							i e			·
J512 ERJ8GCYOROO M O OHM 1/8W L1103 ERJ8GCYOROO M O OHM 1/8W J513 ERJ8GCYOROO M O OHM 1/8W L1201 ERDS2TCO C O OHM 1/4W J514 ERJ8GCYOROO M O OHM 1/8W L1203 ERJ8GCYOROO M O OHM 1/8W J515 ERJ8GCYOROO M O OHM 1/8W R11 ERJ6ENF1002 M 10K DHM F 1/10W J516 ERJ8GCYOROO M O OHM 1/8W R12 ERJ6ENF4703 M 470K DHM F 1/10W J517 ERJ8GCYOROO M O OHM 1/8W R13 ERJ6ENF1802 M 18K DHM F 1/10W	<b>I</b>				1	1		1		· .
U513		LN054C FOROU		J 0: 11*1	1/5	- 103	1.002100	Ĭ	· O DENH	ा∕ चर्म
U513	U512	ER JRGCYOROO	M (	OHM	1/84	11103	FRUSGCYOROO	м	OHM	1/8W
J514 ERJ8GCYOROO M O DHM 1/8W L1203 ERJ8GCYOROO M O DHM 1/8W L1515 ERJ8GCYOROO M O DHM 1/8W R11 ERJ6ENF1002 M 10K DHM F 1/10W L516 ERJ8GCYOROO M O DHM 1/8W R12 ERJ6ENF4703 M 470K DHM F 1/10W L517 ERJ8GCYOROO M O DHM 1/8W R13 ERJ6ENF1802 M 18K DHM F 1/10W										· .
J515 ERJ8GCYOROO M O DHM 1/8W R11 ERJ6ENF1002 M 10K DHM F 1/10W J516 ERJ8GCYOROO M O DHM 1/8W R12 ERJ6ENF4703 M 470K DHM F 1/10W J517 ERJ8GCYOROO M O DHM 1/8W R13 ERJ6ENF1802 M 18K DHM F 1/10W		E .				1		1		
U516 ERU8GCYOROO M O DHM 1/8W R12 ERU6ENF4703 M 470K DHM F 1/10W P1517 ERU8GCYOROO M O DHM 1/8W R13 ERU6ENF1802 M 18K DHM F 1/10W						1	i	1		
U517 ERUSGCYOROO M O DHM 1/8W R13 ERU6ENF1802 M 18K DHM F 1/10W		l .				l.				
	22.0	LAUSGUTUKUU		J. 1141	1/OW	N 12	LAUGLINI 4/03	["	-10K 00M	, 1/10W
	U517	FRUSGOVOPOO	M r	) DHM	1/8₩	R13	FRUSENE 1802	м	18K DHM	F 1/10W
					1/8W		ERJ6ENF3301	М	3.3K OHM	•

Ref.No.	Part No.		Descri	ptio	n	Ref.No.	Part No.		Description		
R15	TAR101D0183H	М	18K OHM	J	1 W	R337	ERJ6GEYJ103	М	10K DHM	J	1/10W
R16	ERJ6ENF6800	М	680 OHM	F	1/10W	R346	ERJ6ENF3832	М	38.3K OHM	F	1/10W
	ERJ6ENF8450	М	845 OHM	F	1/10W	R347	ERJ6ENF3922	М	39.2K OHM	F	1/10W
	TAR101D0273H	М	27K OHM	ڶ	1 W	R348	ERJ6ENF1213	М	121K OHM	F	1/10W
				F				C			
R19	ERJ6ENF4702	М	47K OHM	٢	1/10W	R363	ERDS1FJ151	C	150 OHM	J	1/2W
R20	ERJ6ENF4702	М	47K OHM	F	1/10W	R371	ERJ6ENF1622	М	16.2K OHM	F	1/10W
R22	ERJ6GEYOROO	М	O DHM		1/10W	R372	ERJ6ENF1002	М	10K DHM	F	1/10W
	ERJ6GEYJ105	М	1M OHM	J	1/10W	R373	ERJ6ENF7681	М	7.68K DHM	F	1/10W
		Ι.			1/10W			1.			
	ERJ6ENF4703	М	470K DHM	F		R374	ERJ6GEYJ103	М	10K DHM	Ų	1/10W
R25	ERJ6ENF1000	М	100 DHM	F	1/10W	R375	ERJ6GEYJ472	Μ	4.7K OHM	J	1/10W
R26	ERJ6GEYJ470	М	47 OHM	J	1/10W	R376	ERJ6ENF5622	м	56.2K OHM	F	1/10W
	ERJ6GEYJ102	М	1K OHM	Ū	1/10W	R377	ERJ6ENF1102	М	11K OHM	F	1/10W
	[	1 '				1 5		1 '			
	ERJ6GEYJ272	М	2.7K OHM	J	1/10W	R378	ERJ6ENF1213	М	121K OHM	F	1/10W
R205	ERJ6GEYJ106	М	10M DHM	J	1/10W	R379	ERJ6ENF1782	M	17.8K OHM	F	1/10W
R206	ERJ6GEYJ472	М	4.7K OHM	J	1/10W	R380	ERDS2TJ121	C	120 OHM	J	1/4W
2007	ED 100EV 1480	١.	4 714 01 114		4/400	2004			414 01 194		4 / 4 0 1 1
1	ERJ6GEYJ472	М	4,7K OHM	J	1/10W	R381	ERJ6GEYJ102	М	1K OHM	J	1/10W
	ERJ6GEYJ472	М	4.7K OHM	J	1/10W	1 1	ERJ8GCYOROO	М	O DHM		1/8W
R212	ERJ6GEYJ182	М	1.8K OHM	J	1/10W	R391	ERJ8GCYOROO	М	O DHM		1/8W
R214	ERJ6GEYJ472	М	4.7K OHM	J	1/10W	R392	ERJ8GCYOROO	М	O OHM		1/8W
	ERJ6GEYJ102	М	1K OHM	Ĵ	1/10W	R393	ERJ8GCYOROO	М	O OHM		1/8W
					,						•
	ERJ6GEYJ222	М	2.2K OHM	J	1/10W	1 1	ERD25FJ472K	С	4.7K OHM	J	1/4W
R218	ERJ6GEYJ562	М	5.6K OHM	J	1/10W	R401	ERJ6GEYJ470	M	47 OHM	J	1/10W
R219	ERDS1FJ391	c	390 OHM	J	1/2W	R403	ERJ6ENF8252	м	82.5K OHM	F	1/10W
	ERDS1FJ331	c	330 OHM	Ū	1/2W	1 )	ERQ14AJ220	F	22 OHM	Ü	1/4W
		M	2.2K OHM	J	1/10W	_		M			
NZZ1	ERJ6GEYJ222	141	Z.ZK UMM	U	17 TOW		ERJ6GEYJ103	الا	10K DHM	J	1/10W
R223	ERJ6GEYJ102	M	1K OHM	U	1/10W	R408	ERJ6ENF5621	М	5.62K OHM	F	1/10W
	ERJ6ENF2702	М	27K OHM	F	1/10W	_	ERUSENF1822	М	18.2K OHM	F	1/8W
	ERJ6ENF2433	М	243K OHM	F	1/10W	R410	ERJ6ENF3651	М	3.65K OHM	F	1/10W
1		1 .				1 !		1 .			
	ERJ6GEYJ101	М	100 DHM	J	1/10W	R411	ERJ6ENF2741	М	2.74K OHM	F	1/10W
R248	ERJ6GEYJ101	М	100 DHM	J	1/10W	R412	ERJ6ENF8251	М	8.25K DHM	F	1/10W
R249	ERJ6GEYJ101	м	100 DHM	J	1/10W	R413	ERJ6ENF2211	М	2.21K DHM	F	1/10W
	ERJ6GEYJ392	М	3.9K OHM	J	1/10W		ERJ6ENF1961	М	1.96K OHM	F	1/10W
		1						1 '			
	ERJ6GEYJ562	M	5.6K OHM	J	1/10W	1 1	ERDS2TJ472	С	4.7K OHM	J	1/4W
R252	ERJ6GEYJ102	M	1K OHM	J	1/10W	R416	ERJ6GEYJ122	М	1.2K OHM	J	1/10W
R281	ERJ8ENF3010	М	301 OHM	F	1/8W	R417	ERDS2TJ472	С	4.7K OHM	J	1/4W
B O 0 0	ERJ8ENF3010	М	204 OHM	F	1/8W	R418	EDOCOCKEO4E4		O JEK OUM	_	4 / 454
			301 DHM			t i	EROS2CKF2151	М	2.15K OHM	F	1/4W
R283	ERJ6GEYJ473	М	47K OHM	J	1/10W	R419	ERJ8GCYJ272	Μ	2.7K OHM	J	1/8W
R285	ERJ8ENF3010	М	301 OHM	F	1/8W	R422	ERG1SJ331	M	330 DHM	U	1 W
R287	ERJ8GCYJ122	М	1.2K OHM	ل	1/8W	R423	ERX2SJR82	М	0.82 OHM	J	2W
	ERJ8GCYJ122	М	1.2K OHM	J	1/8W	1 1	ERDS1FJ392	С	3.9K OHM	Ũ	1/2W
		İ									
	ERDS1FJ103	C	10K DHM	J	1/2W	R425	ERJ8GCYOROO	М	O OHM		1/8W
R301	ERJ6GEYJ472	M	4.7K OHM	J	1/10W	R426	EROS2CKF4421	M	4.42K OHM	F	1/4W
	ERJ6GEYJ152	М	1.5K OHM	J	1/10W	P 1	ERDS2TJ1R5	c	1.5 OHM	Ú	1/4W
-	ERJ6GEYJ223	М	22K DHM	J	1/10W	F I	ERJ6GEYJ472	м	4.7K OHM	J	1/10W
	ERJ6GEYJ102	М	1K DHM	J	1/10W		ERQ1CJP4R7S	F	4.7 OHM	J	17 10W
		1		-	,	] [ ]				-	,
	ERJ6ENF3402	М	34K OHM	F	1/10W	1	ERJ6GEYJ472	М	4.7K OHM	J	1/10W
R306	ERJ6ENF2003	M	200K DHM	F	1/10W	R493	ERG2SJ680	М	68 OHM	J	2W
1	ERDS1FJ681	С	680 DHM	Ú	1/2W		ERD25FJ3R3K	c	3.3 OHM	Ū	1/4W
	ERJ6GEYJ153	М	15K OHM	Ũ	1/10W	<b>.</b> .	ERD25FJ3R3K	c	3.3 OHM	J	1/4W
- 1	ERJ6GEYJ472	М	4.7K OHM	J	1/10W	[	ERG3FJ680	M	68 DHM	J	3.0
		Ĭ.		_	,			[	55 51111	-	
R310	ERJ8GCYJ102	М	1K OHM	ل	1/8W	R497	ERDS2TJ332	С	3.3K OHM	J	1/4W
	ERJ6GEYJ153	М	15K OHM	J	1/10W		ERG3FJ470	М	47 OHM	Ĵ	3W
1	ERJ6GEYJ472	М	4.7K OHM	Ū	1/10W	1	ERJ6ENF4221	М	4.22K OHM	F	1/10W
,		c									
1	ERDS1FJ274 ERDS1FJ274	C	270K DHM 270K DHM	J	1/2W 1/2W	1 1	ERJ6ENF5111 ERJ6GEYJ332	M	5.11K OHM 3.3K OHM	F J	1/10W 1/10W
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0040	ERDS2TJ224	С	220K DHM	J	1/4W	R504	ERJ6GEYJ272	м	2.7K OHM	J	1/10W
10 I	ERJ6GEYJ821	М	820 DHM	Ū	1/10W	1 !	ERJ6GEYJ103	М	10K DHM	Ũ	1/10W
	ERJ8GCYJ822	М	8.2K OHM	J	1/8W	I I	ERJ6GEYOROO	М	O DHM	•	1/10W
319		141	O.ZR UNIVI	-		1 :		( '			
R319 R320		<u></u>	4 EV OUR								
R319 R320 R321	ERDS1FJ153	C	15K OHM	J	1/2W	1 1	ERD25FJ392K	c	3.9K OHM	J	1/4W
R319 R320 R321		CC	15K OHM 1K OHM	J	1/2W 1/4W		ERJ6GEYOROO	М	3.9K DHM O DHM	J	1/4W 1/10W
R319 R320 R321 R322	ERDS1FJ153			-		R510				J	

Ref.No.	Part No.		Descr	iptio	n	Ref.No	. Part No		Description		
R527 R528 R534 R535	ERJ6GEYJ222 ERJ6ENF8200 ERD25FJ103K ERX1SJR22	2202	2.2K OHM 820 OHM 10K OHM 0.22 OHM	J F J	1/10W 1/10W 1/4W 1W	R613 R614 R615 R616	ERJ12YJ564 ERJ12YJ184 ERJ6GEYJ39 ERJ6GEYJ12	1 M 92 M	560K DHM 180K DHM 3.9K DHM 12K DHM	J J	1/2W 1/2W 1/10W 1/10W
R536	ERD25FJ103K	С	10K OHM	J	1/4W 1/10W	R617	ERJ6ENF309	91 M	3.09K OHM	F	1/10W
R537 R538 R540 R541 R542	ERJ6ENF5600 ERJ6ENF1433 ERJ12YJ101 ERJ6GEYJ683 ERJ6ENF3241	<u> </u>	560 DHM 143K DHM 100 DHM 68K DHM 3.24K DHM	F J J F	1/10W 1/10W 1/2W 1/10W	R620 R621 R622 R623	ERJ12YJ105 ERJ8GCYJ47 ERDS2TJ125 ERJ6GEYJ22 ERJ8ENF110	74 M 5 C 23 M	470K OHM 1.2M OHM 22K OHM 11K OHM	JJF	1/2W 1/8W 1/4W 1/10W 1/8W
R543 R544 R545 R546 R547	ERJ6GEYJ563 ERJ8ENF1332 TARRS5B820J2 TARRS5B561J2 ERJ6GEYJ470	<b>S S S S S</b>	56K OHM 13.3K OHM 82 OHM 560 OHM 47 OHM	J F J J J	1/10W 1/8W 5W 5W 1/10W	R624 R625 R627 R628 R629	EROS2CKF12 ERU6ENF221 ERU6GEYU10 ERU6GEYU10	11 M 02 M 05 M	1.21K DHM 2.21K OHM 1K OHM 1M OHM 100 DHM	F J J	1/4W 1/10W 1/10W 1/10W 1/10W
R548 R549 R550 R551 R552	ERJ6GEYJ332 ERG1SJ561 ERQ12AJR12HK ERX2SJ1R5 ERX2SJ1R8	8 8 8 8 8 8	3.3K OHM 560 OHM 0.12 DHM 1.5 OHM 1.8 OHM	J J J	1/10W 1W 1/2W 2W 2W	R630 R631 R632 R643 R644	ERUGGEYU10 ERUGGEYU12 ERUGGEYU10 ERUGGEYU10 ERUGGEYU10	23 M 00 M	1K DHM 12K DHM 10K DHM 0 OHM 1K DHM	J J J	1/10W 1/10W 1/10W 1/10W 1/10W
R553 R554 R555 R556 R557	ERJ6GEYJ103 ERX3FJX6R8D ERD25FJ103K ERJ6GEYJ332 ERJ6GEYJ103	22022	10K DHM 6.8 DHM 10K DHM 3.3K DHM 10K DHM	7 7 7 7	1/10W 3W 1/4W 1/10W 1/10W	R645 R648 R650 R660 R661	ERU8GCYU22 ERU6GEYU10 ERU6GEYU47 ERU8ENF511 ERU6GEYU82	02 M 11 M 0 M	2.2K OHM 1K OHM 470 OHM 511 OHM 82K OHM	J J F J	1/8W 1/10W 1/10W 1/8W 1/10W
R558 R559 R560 R561 R562	ERJ6GEYJ103 ERJ6GEYJ102 ERDS1FJ472 ERJ6GEYJ100 ERJ6GEYJ472	5 5 C 5 5	10K OHM 1K OHM 4.7K OHM 10 OHM 4.7K OHM	7 7 7 7	1/10W 1/10W 1/2W 1/10W 1/10W	R662 R663 R664 R665 R666	ERJGGEYJ10 ERJGGEYJ10 ERJGGEYJ10 ERJGGEYJ56	3 M 3 M	1K DHM 10K DHM 10K DHM 10K DHM 5.6K DHM	7 7 7 7	1/10W 1/10W 1/8W 1/10W 1/10W
R564 R565 R566 R575 R576	ERJ6GEYJ100 ERDS1FJ472 ERJ8GCYJ472 ERDS1FJ221 ERJ6ENF1622	<b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C <b>M</b> C	10 OHM 4.7K OHM 4.7K OHM 220 OHM 16.2K OHM	J J J F	1/10W 1/2W 1/8W 1/2W 1/10W	R667 R668 R669 R670 R671	ERUGGEYU22 ERUBGCYU10 ERUGGEYU39 ERDS1FU104 ERUGGEYU56	04 M 02 M 1 C	2.2K DHM 100K DHM 3.9K DHM 100K DHM 5.6K DHM	7 7 7	1/10W 1/8W 1/10W 1/2W 1/10W
R577 R578 R581 R585 R586	ERJ6ENF4121 ERJ6GEYJ102 ERD25FJ47OK ERDS2TJ101 ERDS2TJ101	<b>85</b> 000	4.12K OHM 1K OHM 47 OHM 100 OHM 100 OHM	FJJJJ	1/10W 1/10W 1/4W 1/4W 1/4W	R672 R674 R675 R676 R678	ERU6GEYU10 ERDS1FJ391 ERQ14AJ101 ERQ14AJ101 ERDS1FJ220	C F F	1K DHM 390 DHM 100 DHM 100 DHM 22 DHM		1/10W 1/2W 1/4W 1/4W 1/2W
R587 R588 R589 R590 R591	TARRS5B150J2	C M M M	3.3K OHM 15 OHM 15 OHM 2.49K OHM 2.7K OHM	ソソンドン	1/4W 5W 5W 1/10W 1/10W	R680 R682	ERUGGEYU10 ERUGGEYU10 ERUGGEYU10 ERUGGEYU82 ERUGGEYU39	04 M 01 M 12 M	100K DHM 100K DHM 100 DHM 8.2K DHM 3.9K DHM		1/10W 1/10W 1/10W 1/10W 1/10W
R592 R593 R594 R595 R596	ERJ6GEYJ103 ERG2SG393 ERDS2TJ121 ERDS1FJ1R8 ERJ6GEYJ332	<b>55</b> 00 <b>5</b>	10K OHM 39K OHM 12O OHM 1.8 OHM 3.3K OHM	76777	1/10W 2W 1/4W 1/2W 1/10W	R703 R715 R719	ERUGGEYU39 ERUGGEYU10 ERUGGEYU39 ERUGGEYU39 ERUGGEYU10	3 M 12 M	3.9K DHM 10K DHM 3.9K DHM 3.9K DHM 1K DHM	$C \subset C \subset C$	1/10W 1/10W 1/10W 1/10W 1/10W
R598 R601 R602 R603 R605	ERQ12AJ101 ERQ14AJ100	<b>М</b>	0 DHM 100 DHM 10 DHM 0 DHM 10 DHM	J J	1/10W 1/2W 1/4W 1/8W 1/4W	R801 R802 R804	ERJ6GEYJ1C ERC12AGK39 ERJ6GEYJ27 ERJ8GCYJ47 ERJ6GEYJ1C	4 S 3 M 1 M	1K DHM 390K DHM 27K DHM 470 DHM 1K DHM	) K ) )	1/10W 1/2W 1/10W 1/8W 1/10W
R609	ERDS1FJ184 ERDS1FJ184 ERDS1FJ184 ERDS1FJ184 ERDS1FJ184	00000	180K DHM 180K DHM 180K DHM 180K DHM 180K DHM	C C C C C	1/2W 1/2W 1/2W 1/2W 1/2W	R808 R809 R810	ERJ8GCYJ56 ERJ6GEYJ47 ERDS1FJ223 ERJ6GEYJ39 ERDS1FJ224	1 M C 1 M	5.6K OHM 470 OHM 22K OHM 390 OHM 220K OHM	0000	1/8W 1/10W 1/2W 1/10W 1/2W
R611 R612		M M	68K DHM 270K DHM	J	1W 1/2W		ERDS1FJ274 ERJ6GEYJ15		270K DHM 1.5K DHM	J	1/2W 1/10W

Ref.No.	Part No.		Desc	riptio	on .	Ref.N	lo.	Part No.		Description		n	
R814	ERJ6GEYJ151	М	150 OHN	l J	1/10W	R904	E	ERJ8GCYOROO	М	0 0	НМ		1/8W
R815	ERJ6GEYJ681	М	680 OHM	l J	1/10W	R905	H	ERJ8GCYOROO	М	0 0	НМ		1/8W
R816	ERUGENF2551	М	2.55K OHM	1 F	1/10W	R906	E	ERJ8GCYJ103	M	10K 0		U	1/8W
R817	ERQ12AJ6R8	F	6.8 OHM		1/2W	R907	- 1	ERJ6GEYJ104	М	100K D		Ū	1/10W
R818	ERJ6GEYOROO	М	O OHM		1/10W	R908		ERU8GCYJ102	М		НМ	J	1/8W
( )	E TO GET TO TO	[	0 01 11	•	1, 10.1	1 1	ľ	LINGO GOTO TO 2	"	// 0	1111	U	1/8#
R819	ERDS2TJ224	c	220K DHM	ل ۱	1/4W	R909	ļ	ERJ8GCYJ103	М	10K D	нм	J	1/8W
R820	ERDS2TJ224	C	220K DHM		1/4W	R910	- 1	ERUSGCYU563	м	56K 0		Ú	1/8W
R821	TARRS3B333J2	М	33K DHM		3₩	R911	- 1	ERUSGCYU563	М				•
R822	ERU6GEYU182	M			1/10W		- 1		1 .	56K D		J	1/8W
		1	1.8K OHM		* .	R912	- 1	ERJ8GCYJ563	M	56K D		Ų	1/8W
R823	ERJ6GEYJ102	М	1K OHM	l J	1/10W	R913	t	ERJ8GCYJ563	М	56K D	HIM	J	1/8W
R824	ERJ8GCYJ681	М	680 DHM		1/8W	R914	r	TD ICCEV IECO		ECK O			4 /4 014
R825	1	М	680 DHM 820 DHM		1/0W	1 1	- 1	ERJ6GEYJ563	М	56K 0		J	1/10W
	ERJ6GEYJ821	1.		_		R915		ERJ6GEYJ563	M	56K D		J	1/10W
R829	ERJ6GEYJ102	М	1K OHM		1/10W	R916		ERJ6GEYJ563	М	56K O		Ú	1/10W
R833	ERJ6GEYJ102	М	1K OHM		1/10W	R918		RJ6GEYJ101	Μ	100 0		U	1/10W
R834	ERW2PKR12	W	0.12 DHM	K	2W	R919	ĮΕ	ERJ8GCYOROO	М	0 0	НМ		1/8W
		1.				L							,
R836	ERG2SJ223	M	22K OHM		2 <b>W</b>	R923	- 1	ERDS2TJ103	C	10K DI		J	1/4W
R837	ERG2SJ223	М	22K OHM		2W	R930		RJ8GCYJ103	М	10K DI		J	1/8W
R838		M	1K OHM	_	1/10W	R931	- 1	ERJ8GCYJ103	Μ	10K 0		J	1/8W
R839	ERDS1FJ223	C	22K OHM	-	1/2W	R932	- 1	ERJ6GEYJ101	М	100 DI	HM	J	1/10W
R841	ERQ12AJR33HK	F	0.33 OHM	Ų	1/2W	R933	ĮΕ	ERJ6GEYJ101	М	100 0	ΗM	J	1/10W
		1											
R842	ERQ12HJ1R2	F	1.2 OHM	J	1/2W	R937	E	RU6GEYJ102	M	1K 0	НМ	J	1/10W
R843	ERQ12AJR12HK	F	0.12 DHM	J	1/2W	R940	E	ERJ6GEYJ223	M	22K 0	HM	J	1/10W
R844	ERQ12AJR12HK	F	0.12 DHM	J	1/2W	R941	E	ERJ6GEYJ223	M	22K D	НМ	Ū	1/10W
R845	TAR18BKOR11Z	F	0.11 DHM	K	1/4W	R943	E	RJ6GEYJ103	M	10K 0	НМ	J	1/10W
R846	ERDS1FJ221	c	220 OHM	J	1/2W	R946	- 1	ERJ6GEYJ101	М		НМ	Ū	1/10W
					·							-	.,
R847	ERJ12YJ122	М	1.2K OHM	ل	1/2W	R947	E	RJ6GEYJ331	М	330 DH	нм	J	1/10W
R849	ERJ6GEYJ473	М	47K OHM	J	1/10W	R949		RJ8GCYJ223	М	22K O		Ĵ	1/8W
	ER025CKF2201	М	2.2K DHM		1/4W	R950		RJ8GCYJ223	М	22K O		Ú	1/8W
	ERQ14AJO10HK	F	1 OHM		1/4W	R951	- 1	RJ6GEYJ223	М	22K O		J	1/10W
		М	10K DHM		1/10W	R952	- 1	RJ6GEYJ223	М	22K O		J	1/10W
1.032	EROUGETOTOS	["	TOR CITI	Ū	17 10	1 1332	-	. NOUGL 10225	1*1	22K U	]IV	U	17 10 W
R854	ERG3FJ330	М	33 OHM	J	3 W	R962	F	RJ6GEYJ103	М	10K 0H	⊣м	J	1/10W
	ERJ6ENF2101	М	2.1K OHM		1/10W	R963		RJ6GEYJ103	М	10K 0		J	1/10W
		М	68K DHM		1/10W	R969		RJ6GEYJ334	М	330K OH		Ú	1/10W
	ERD\$1FJ222	c	2.2K DHM		1/2W	R970	4	RJ6GEYJ334	М	330K DH		J	1/10W
	ERD\$1FU222	C	2.2K DHM		1/2W	R970	- 1	RU6GEYU334	M	330K DH		J	1/10W
1.653	LKD311 0222		2.28 0110	U	1/2₩		-	RUBGE 10334	"	330K U	-1441	U	1/10w
R860	ERJ6GEYJ103	M	10K DHM	ل	1/10W	R973	-	RJ8GCYJ103	м	10K 0H	-10.0	J	1/8W
		м	13K OHM		1/10W	R974		RJ8GCYJ103	М	10K DH		J	1/8W
		С	3.3K DHM	, U	1/2W	R975		RUSGCYU103	М				
R864		M	22K DHM	J	2W	R977	1		1	10K DH		J	1/8W 1/10W
R865	_	M		U	∠₩ 1/10₩	, ,	- 1	RJ6GEYJ223	M		-IM	J	. ,
1000	ERUBGETOROO	IVI	O DHM		17 10W	R978	E	RJ6GEYJ392	М	3.9K OH	-IIVI	J	1/10W
R867	ERJ6ENF3741	М	3.74K OHM	F	1/10W	R979	_	RJ6GEYJ392	M	3.9K OH	-M	J	1/10W
		М	6.65K OHM		1/10W	R980		RJ6GEYJ273	M				1/10W
		M	4.22K OHM		1/10W	R980	1			27K OF		J	1/10W 1/10W
		M	4.22K UHM 100K DHM				- 1	RJ6GEYJ333	M	33K OF		J	1/10W 1/10W
1	-	1			1/2W	R982		RJ6GEYJ101	M	100 DH		J	
10/2	ERJ12YJ104	М	100K DHM	J	1/2W	R983	F	RJ6GEYJ101	М	100 DH	TIV)	J	1/10W
R875	ERDS1FJ224	С	220K DHM	ل	1/2W	R984	-	D.IGGEV.I404	N#	100 0	-187	. 1	1/10W
		l .						RJ6GEYJ101	M	100 OF		ل	· · · · · · · · · · · · · · · · · · ·
		M	6.8K OHM		1/4W	R985		RJ6GEYJ101	M	100 DH		J	1/10W
		M	4.7K OHM	J	1/8W	R986		RDS2TJ331	С	330 DH		J	1/4W
		C	68K DHM	J	1/2W	R993	,	RJ6GEYOROO	М	0 01		_	1/10W
R890	ERX3FJX1R6D	М	1.6 DHM	J	3W	K1002	E	RJ8ENF75RO	Μ	75 OH	ΗM	F	1/8W
R891	EDDC4E 1004		2004 0134	1	4 /OW	D 4 0 0 4	_	D 100EV 1000		00.00	18.0		1/1011
	1	C	220K DHM	Ų	1/2W	1 1		RJ6GEYJ330	М	33 OF		J	1/10W
		C	330K DHM	ل	1/2W	I I		RJ6GEYOROO	М	0 01		_	1/10W
		C	330K DHM	ل	1/2W	I I	- 1	RJ6ENF29R4	М	29.4 OF		F	1/10W
1	Į.	М	1K OHM	J.	1/10W	1 1	- 1	RJ6ENF7320	М	732 OH		F	1/10W
R896	ERJ6GEYJ102	M	1K OHM	J	1/10W	R1009	E	RJ6ENF3900	M	390 DF	-IM	F	1/10W
0000	EDDC1E 1001		000/ 51:55		4 /611			D 105115555	[			_	
		C	330K DHM	ب	1/2W	1	- 1	RJ6ENF5600	Μ	560 DH		F	1/10W
<u></u>		C	47 OHM	Ų	1/2W			RJ6GEYJ300	М	30 DH		J	1/10W
		С	220K DHM	Ų	1/2W			RDS2TJ101	C	100 DH		J	1/4W
1		С	330K DHM	J	1/2W			R025CKF4702		47K OH		F	1/4W
R901	ERJ6GEYJ103	М	10K DHM	J	1/10W	R1014	E	ROS2CKF3091	M	3.09K DH	-M	F	1/4W
			_		,				1				,
1		M	6.8K DHM	Ų	1/10W			RJ6ENF6811	M	6.81K OF		F	1/10W
R903	ERJ6GEYJ102	M	1K OHM	J	1/10W	R1018	E	RDS1FJ820	C	82 OF	-M	J	1/2W

Ref.No.	Part No.	Descr	iption	Ref.No	. Part No.	Description	1
R1019	ERG2SJ123	M 12K OHM	J 2W	R1305	ERJ6ENF 1002	M 10K DHM F	1/10W
R1020	ERJ6ENF1002	M 10K OHM	F 1/10W	R1306	ERJ6ENF 1002	M 10K DHM F	1/10W
R1021	ERJ6ENF 1002	M 10K DHM	F 1/10W	R1307	ERJ6GEYJ271	M 270 DHM J	1/10W
R1022	ERDS1FJ220	C 22 OHM	J 1/2W	R1308	ERJ6GEYJ102	M 1KOHM J	1/10W
R1023	ERDS2TJ102	C 1K OHM	J 1/4W	R1312	ERJ6GEYJ102	M 1K OHM J	1/10W
-							
1		M 8.2K OHM	J 1/10W	R1313	ERJ6GEYJ102	M 1K OHM J	1/10W
R1025		M 12K OHM	F 1/10W	R1314	ERJ6GEYJ331	M 330 DHM J	1/10W
1 1 -		M 22.6K OHM	F 1/4W	R1315	ERJ6GEYJ474	M 470K OHM J	1/10W
R1027		M 10K DHM	F 1/10W	R1316	ERJ6GEYJ222	M 2.2K OHM J	1/10W
R1028	ERJ6GEYJ472	M 4.7K OHM	J 1/10W	R1317	ERJ6ENF9101	M 9.1K OHM F	1/10W
	ED 10051/0000		4/4014	R1318	ED ICCENTION	M 6.8K OHM J	1/10W
t i		M O OHM	1/10W F 1/8W		ERJ6GEYJ682 ERJ6ENF2701	M 6.8K OHM J M 2.7K OHM F	1/10W 1/10W
R1102		M 75 OHM M 33 OHM			ERUGENF2701	M 10 DHM J	1/10W
1			J 1/10W F 1/10W	R1324	ERJ6GEYJ103	M 10K DHM J	1/10W
I I		M 23.7 OHM M 732 OHM	F 1/10W	R1325	ERJ6GEYJ223	M 22K DHM J	1/10W
R1108	ERJ6ENF7320	1 /32 UNIVI	F 1/10W	K 1323	EROBGE 10223	22K OHIO	1710#
R1109	ERJ6ENF3900	м 390 ОНМ	F 1/10W	R1326	ERJ6GEYJ223	M 22K OHM J	1/10W
I I	1	M 560 DHM	F 1/10W	R1327	ERJ6GEYJ103	M 10K OHM J	1/10W
1 1		M 39 DHM	J 1/10W	R1328	ERJ6GEYJ102	M 1K OHM J	1/10W
1 1 1 1 1	ERDS1FJ820	C 82 OHM	J 1/2W	R1329	ERJ6GEYJ102	M 1K OHM J	1/10W
1 (		M 47K OHM	F 1/4W	R1330	ERJ6ENF8251	M 8.25K OHM F	1/10W
R1114	EROS2CKF3091	м 3.09к ОНМ	F 1/4W	R1331	ERJ6ENF1502	M 15K OHM F	1/10W
R1115	ERJ6ENF6811	M 6.81K DHM	F 1/10W		ERJ6ENF1002	M 10K OHM F	1/10W
R1118	ERDS1FJ820	C 82 OHM	J 1/2W	1	ERJ8GCYJ681	M 680 DHM J	1/8W
R1119	ERG2SJ123	M 12K OHM	J 2W	R1334	ERJ6GEYJ101	M 100 DHM J	1/10W
R1120	ERJ6ENF1002	M 10K DHM	F 1/10W	R1335	ERJ12YJ102	M 1K DHM J	1/2W
i l							
R1121		M 10K DHM	F 1/10W	R1336	ERJ6GEYJ102	M 1K OHM J	1/10W
R1122	ERDS1FJ220	C 22 OHM C 1K OHM	J 1/2W	I I	ERJ6GEYJ101	M 100 DHM J	1/10W
R1123			J 1/4W		ERJ6GEYJ101	M 100 DHM J	1/10W
R1124		M 8.2K DHM	J 1/10W		ERJ6GEYJ101	M 100 DHM J	1/10W
R1125	ERJ6ENF1202	M 12K OHM	F 1/10W	R1401	ERJ6GEYJ331	M 330 DHM J	1/10W
R1126	EDOCOCKE 2002	M 22.6K DHM	F 1/4W	R1402	ERJ6ENF2702	M 27K OHM F	1/10W
		M 10K DHM	F 1/10W	1 1	ERJ6ENF3301	M 3.3K OHM F	1/10W
R1127 R1128		M 4.7K OHM	J 1/10W	1 1	ERUGENF3301	M 22.1K OHM F	1/10W
R1130	-	M O DHM	1/10W	i I	ERJ6ENF5621	M 5.62K DHM F	1/10W
R1131		M 33 DHM	J 1/8W		ERJ6ENF 1002	M 10K DHM F	1/10W
	LROGGOTOGG	00 01 1111	.,				.,
R1202	ERJ8ENF75RO	M 75 OHM	F 1/8W	R1409	ERJ6ENF 1002	M 10K OHM F	1/10W
R1204	ł c	M 33 OHM	J 1/10W	R1410	ERJ6GEYJ124	M 120K OHM J	1/10W
R1205		M 6.8K OHM	J 1/10W	R1411	ERJ6GEYJ101	M 100 OHM J	1/10W
R1207	ERJ6ENF66R5	M 66.5 OHM	F 1/10W				
R1208	ERJ6ENF7320	M 732 OHM	F 1/10W		OTHERS		
		W 390 OHW	F 1/10W		TMKK001	TAPE	}
1 1		M 560 DHM	F 1/10W		TMK87907	MICA SHEET	
		M 22 OHM	J 1/10W		TUC87574	AC INLET BRACKET	i
	ERDS2TJ331	C 330 DHM	J 1/4W		XTV3+12J	SCREW	l
R1213	ER025CKF4702	M 47K OHM	F 1/4W		XTV3+16J	SCREW	
D1014	EROS2CKF3091	M 3.09K DHM	F 1/4W		XWGT40660	WASHER	
	1	M 6.81K OHM	F 1/10W		XWG3F10	WASHER	
t		C 82 OHM	J 1/2W	<b>∆</b> F801	XBA2C31TB15L		
		M 12K OHM	J 2W	FG1	TJE85318	LUG TERMINAL	
1 1	F	M 10K OHM	F 1/10W	FG2	TJC85341	EARTH LUG	
	1		,				
R1221	ERJ6ENF 1002	M 10K OHM	F 1/10W	FG3	TJC85341	EARTH LUG	
		C 22 DHM	J 1/2W	FG4	TJC85341	EARTH LUG	
i !		C 1K OHM	J 1/4W	FG6	TJC85341	EARTH LUG	
1 1		M 8.2K OHM	J 1/10W	FS801	TJC85502T	FUSE HOLDER	
R1225	ERJ6ENF1202	M 12K OHM	F 1/10W	FS803	TJC85502T	FUSE HOLDER	
						L	
	EROS2CKF2262	I .	F 1/4W		TJC85341	EARTH LUG	
		M 10K DHM	F 1/10W		TJC85341	EARTH LUG	
l I		M 4.7K OHM	J 1/10W	1 1	TJS9A8730	10P CONNECTOR	
L		M O OHM	1/10W	N7B	TJS9A8730	10P CONNECTOR	
R1301	ERJ6GEYJ472	M 4.7K OHM	J 1/10W	N11	TJSF00602	2P CONNECTOR	
B1300	ED ICCENTION	na 442 01 154	1 4/409	N. 1 0	T ISECOCCO	OD CONNECTOR	İ
		M 1K OHM	J 1/10W	N12	TJSF00603	3P CONNECTOR	
R1303	ERJ6GEYJ753	M 75K OHM	J 1/10W	N12A	TJS9A8740	22P CONNECTOR	

	Ref.No.		Description	Ref.No.	Part No.	Description
	N13 N103 N104A	TJS9A8740 TJSF00604 TJS8A9880 EMCS0364M TXAJTV3P1663	22P CONNECTOR  4P CONNECTOR  15P CONNECTOR  3P CONNECTOR  3P CONNECTOR			
Δ	N107A N381 N801	TJC85342T EMCSO251ML TJS1A528O TJS8A9361 EMCSO451ML	LUG TERMINAL 2P CONNECTOR(L-TYPE) CRT SOCKET AC SOCKET 4P CONNECTOR(L-TYPE)			
	N510-2 N510-3 N510-4	TEL302-9 TEL302-9 TEL302-9 TEL302-9 TEL302-9	TERMINAL TERMINAL TERMINAL TERMINAL TERMINAL			
$\stackrel{\wedge}{\mathbb{A}}$	PC830 PC831 PC832	TEL302-9 PC123FY8 PC123FY8 TLP750D4 TAG10003	TERMINAL PHOTO COUPLER PHOTO COUPLER PHOTO COUPLER SPARK GAP			
	S601 S1001 S1101	TGPS152GL TAGDSP201MB TAGDSP141TTA TAGDSP141TTA TAGDSP141TTA	SPARK GAP			
	SW901 SW902 SW903	EVQPB005K	SWITCH(POWER) SWITCH SWITCH SWITCH SWITCH SWITCH			
	TP2 TP3 TP4	TEL302-9 TEL302-9 TEL302-9 TEL302-9 TEL302-9	TERMINAL TERMINAL TERMINAL TERMINAL TERMINAL			
	X901	TSS2165TM	CRYSTAL OSCILLATOR			
		,				